PB-216 244

REGISTER OF AIR POLLUTION ANALYSES AS OF JANUARY 1, 1956

Robert A. Taft Sanitary Engineering Center
Cincinnati, Ohio

1958

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Register of AIR POLLUTION ANALYSES as of January 1, 1956

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349

REGISTER OF AIR POLLUTION ANALYSES

A record of community air sampling and analyses performed in the United States and the Territories of Alaska and Hawaii prior to January 1956.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service

Bureau of State Services
Division of Sanitary Engineering Services

Robert A. Taft Sanitary Engineering Center
Cincinnati 26, Ohio

1958

ACKNOWLEDGEMENTS

Appreciation is expressed for the cooperation of the numerous air pollution control agencies, health departments, universities, and research institutions which contributed literature, leads to information, answers to questionnaires, and reports of surveys; and for the assistance provided by the Public Health Service regional offices in the collection of this material.

Public Health Service Publication No. 610
1958

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INTRODUCTION

THE REGISTER

Many workers concerned with the problems of community air pollution have recognized the need of assembling in one reference the scattered information relating to past air pollution surveys that exists in the literature of libraries and in files of control agencies, health departments, universities and research institutions. The Register of Air Pollution Analyses has been prepared as a step toward filling this need.

It is anticipated that the Register will provide sources of information to demonstrate trends in pollution levels in specific communities, for epidemiological studies of the effect of air pollutants on human health, for comparison of pollution levels in various communities, for sampling and analytical techniques employed in past surveys, and to facilitate the compilation of the results of past surveys for publication.

Contained within the Register is a record of community air sampling and analyses performed in the United States and the Territories of Alaska and Hawaii prior to January 1, 1956. More than 100 different chemically definable individual pollutants or constituents of mixed ones, such as dustfall, are listed for 200 cities in 110 counties of 32 states and territories.

Although a compilation of the data resulting from the analyses of air pollutants would be useful, such records of this kind would result in too large a volume. Instead, the Register lists 82 literature

references and 95 addresses of agencies where results of analyses are recorded, so that anyone wishing to make use of the air sampling data may obtain it from its source.

PREPARATION OF THE REGISTER

The publication of the Register represents the cooperation of many people and groups. Compilation of information was started in mid-1955 by Victor Sussman and was completed largely by Vernon Hanson, J. J. Schueneman, and Carl Lindstrom. Numerous air pollution control agencies, health departments, universities and research institutions completed questionnaires that were sent to them; Public Health Service regional offices assisted in the collection of information from various groups; library personnel searched for and provided literature; and members of the Community Air Pollution Program staff undertook and completed the considerable task of assembling the material in suitable form.

In questionnaires sent to the many agencies certain basic information was requested. The manner and form of the replies, however, varied extensively. Some agencies submitted answers exactly as requested, many replied in more detail than expected, while others sent reports or literature requiring that the necessary information be abstracted to suit the needs of the Register. Regardless of the form in which the material was received, all was accepted with appreciation, but the lack of uniformity in the presentation of the pertinent information has occasionally made interpretation difficult. Although an attempt has been made to record all the publicly available air analyses made in the U. S. prior to 1956, some undoubtedly have been omitted. Notification of any omissions or corrections will be appreciated for use in any future editions or supplements that may be issued.

No concerted effort was made to obtain information from industrial organizations, but a few collections of their data have been listed.

HOW TO USE THE REGISTER

GENERAL

Throughout the Register, the States and Territories, the counties, and the cities are listed alphabetically in their geographical subdivisions. Pollutants are also arranged in alphabetical order when listed or tabulated.

In the table column, "Organization", the names of the agencies which directed or participated in each sampling program are designated. The columns grouped under "Dates" specify the calendar period over which the program was conducted.

The number of sampling stations operated during the program is shown in the column, "Number of Stations". Unless stated otherwise, the figure refers to stations where the equipment remained throughout the entire sampling program, as opposed to those operated with equipment that was moved from site to site. Entries such as "1 rov'g @ 20 sites" mean (for example) that one piece of mobile sampling equipment was operated periodically among 20 fixed locations. The term "varied" is used to denote a somewhat changeable pattern of stations, difficult to define more specifically.

The column, "Length of Each Sampling Period", refers to the length of time a piece of equipment was operated for each sample collected. Here, too, the term "varied" appears and should be interpreted as above. Ranges of time shown by minimum and maximum values indicate that the periods of collection for different samples varied within these limits. The entries in this column are by their nature not very precise.

The number of samples collected over a selected time period is shown in the column, "Frequency Samples Were Taken". Here the manner of expression and the interpretation of the entries are similar to those described for the column, "Length of Each Sampling Period".

There are only code numbers in the column, "Sampling Equipment". In Appendix A, these are keyed to descriptions of the types of collection equipment employed. For ready identification the types of sampling equipment are arranged alphabetically as well as numerically.

Similarly, the code numbers in the column, "Analytical Methods", are keyed in Appendix A to procedures used for the analyses of the pollutants. Throughout this Appendix the procedures are listed numerically. Sample categories appear here also, underlined and arranged alphabetically, each category followed by the methods employed for its analysis. Any method of analysis that may be common to more than one pollutant is listed for each, but carries a different code number. This Appendix, then, in addition to its primary use for identifying code numbers, also shows the various methods that were used to measure a given simple pollutant or a constituent of a complex one.

Code numbers are also used in the column, "Agencies and References Where Results are Recorded". Agency code numbers are those without parentheses and are identified in Appendix B. Code numbers within parentheses apply to literature references. These, too, are keyed to descriptions in Appendix B.

The final column entitled, "Notes", also has code numbers. These code numbers are keyed to additional information regarding the sample program which are assembled on the last page for the state

to which the notes apply.

Abbreviations used within the Register are described in Appendix C. Each group of letters, not separated by a comma, can be found in this Appendix by simply looking up the first one or two letters of the abbreviation in the alphabetical listing.

THE SAMPLE CATEGORY INDEX

The Sample Category Index identifies the States and cities in which each simple pollutant or constituent of a complex one was collected and analyzed.

For example, turning to the heading "Ammonia" (page 301) in this Index it will be noted that the only cities known to have made such measurements prior to 1956 are Los Angeles, California; Salt Lake City, Utah; and Charleston, West Virginia. The numbers listed indicate pages where information concerning ammonia sampling for each of these communities is recorded.

THE REGISTER

STATE: ALABAMA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jefferson													
Birmingham	Sulfur dioxide	A.H.F.A., Inc.	1/14	37	1/27	37	1 rov'g @ 125 sites	10 min.	30/day	25	70	(C-11)	
		A.H.F.A., Inc.	5/31	37	6/12	37	1 rov'g @ 73 sites	10 min.	30/day	25	70	(C-11)	

TERRITORY OF ALASKA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Territory of Alaska													
Anchorage	Suspended particulate	Arctic Health Research Center and The Kettering Lab.	10/-	53	NR	54	2	24 hr.	2/mo.	21		(C-10)	2
	Total wt.										NR		
	Inorganics										NR		
	Organics										NR		
	Particle size										NR		
	Protein										NR		
	Radioactivity										NR		
	Suspended particulate	Arctic Health Research Center	10/27	53	2/18	54	2	24 hr.	1/wk. (varied)	21		A- 6 S-12	
	Radioactivity										103		

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Territory of Alaska													
Anchorage	Suspended particulate	Arctic Health Research Center and The Kettering Lab.	2/17 5/13	54 54	5/13 2/10	54 55	2 1	24 hr.	1/wk.	21		A- 6 S-12 (C-12) (C-13) (T- 3)	3 6
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

TERRITORY OF ALASKA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Territory of Alaska													
Anchorage	Suspended particulate	Arctic Health Research Center	6/23	54	3/24	55	1	24 hr.	1-3/mo.	21		A- 6	4
			3/24	55	6/16	55	2					S-12	5
			6/16	55	12/22	55	1					(C-12)	6
	Total wt.										86	(C-13)	
	Chlorides										80	(T- 3)	
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
College	Ozone	U. of Alaska	NR	50	NR	50	NR	NR	NR	1	58	(W- 1)	1

Notes: TERRITORY OF ALASKA

1. Several methods for the chemical determination of ozone near the surface of the earth are outlined.

2. Studies were made of the effects of the eruption of Mt. Spurr on the community air supply.

3. Zinc was detected now and then.

4. Acetone extraction was used before July 1, 1955.

5. Sampling continued after December 31, 1955.

6. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES: SEE LAST PAGE OF THIS STATE
Alameda													
Alameda	Oxidant	California State D.P.H.	11/5	54	10/31	55	1	5-9 min.	1/day	5	53	C- 1 U- 1 (C- 1)	1
		City of Alameda D.H.	5/3	55	10/31	55	1	10 min.	1/day	5	53	A- 1 C- 1 (C- 1)	1
Berkeley	Oxidant	California State D.P.H.	11/2	53	10/31	55	1	10 min.	1/day	5	53	C-1 (C- 1)	1
		City of Berkeley D.P.H.	10/4	55	10/31	55	1	10 min.	1/day	5	53	B- 1 C- 1 (C- 1)	1
	Sulfur	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	6-10 hr.	1/day	20	64	(H- 1)	
	Sulfur dioxide	Selby Smelter Commission	1/-	14	1/-	14	1 rov'g	10 min.	8-21/day	20	71	(H- 1)	
		Selby Smelter Commission	2/-	14	2/-	14	1 rov'g	10 min.	8-21/day	20	71	(H- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Alameda													
Berkeley	Suspended particulate	U. of California	1/-	54	12/-	54	1	NR	NR	NR		C-11	
	Radioactivity										NR		
Centerville	Oxidant	Alameda C.H.D.	9/22	54	10/31	55	1	10 min.	1/day	5	53	A- 2 C- 1 (C- 1)	1
Emeryville	Oxidant	Alameda C.H.D.	9/22	54	10/31	55	1	10 min.	1/day	5	53	A- 2 C- 1 (C- 1)	1
Oakland	Oxidant	City of Oakland D.H.	9/10	54	10/31	55	2-5	10 min.	1/day	5	53	C- 1 O- 1 (C- 1)	1
	Sulfur	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	6-10 hr.	1/day	20	64	(H- 1)	
	Sulfur dioxide	Selby Smelter Commission	1/- 2/-	14 14	1/- 2/-	14 14	1 rov'g	10 min.	8-21/day	20	71	(H- 1)	
San Leandro	Oxidant	Alameda C.H.D.	9/10	54	10/31	55	1	10 min.	1/day	5	53	A- 2 C- 1 (C- 1)	1

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Alameda													
San Leandro	Oxidant	California State D.P.H.	6/14	55	12/1	55	1	10 min.	1-4/wk.	5	53	A- 2 C- 1 (C- 1)	1
	Suspended particulate	Alameda C.H.D. and U.S.D.H.E.W., P.H.S.	11/7	55	12/13	55	1	24 hr.	6/mo.	21		A- 2 S-12	21
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Contra Costa													
Crockett	Sulfur dioxide	Selby Smelter Commission	12/3	13	12/12	13	1	15 sec.	7-14/day	20	71	(H- 1)	
Martinez	Oxidant	Contra Costa C.H.D.	10/19	54	10/31	55	1	10 min.	1/day	5	53	C- 1 C- 2 (C- 1)	1
	Sulfur	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	6-10 hr.	1/day	20	64	(H- 1)	
	Sulfur dioxide	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	15 sec.	2-21/day	20	71	(H- 1)	
Richmond	Oxidant	Contra Costa C.H.D.	10/25	54	10/31	55	1	10 min.	1/day	5	53	C- 1 C- 2 (C- 1)	1
	Sulfur	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	6-10 hr.	1/day	20	64	(H- 1)	
	Sulfur dioxide	Selby Smelter Commission	12/-	13	12/-	13	1 rov'g	15 sec.	10-24/day	20	71	(H- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Altadena	Aldehydes	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	1 hr.	9/day	5	2	L- 1	20
	Carbon monoxide	Los Angeles C.A.P.C.D.	9/5	51	9/15	51	1	1 hr.	NR	41	8	L- 1	20
	Hydrocarbons	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	Varied	Varied	19	39	L- 1	2 20
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	Inst.	9/day	20	46	L- 1	20
	Oxidant	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	1 hr.	9/day	5	57	L- 1	20
	Ozone	Los Angeles C.A.P.C.D.	9/5	51	9/15	51	1	1-20 min.	9/day	15	59	L- 1	20
	Sulfur dioxide	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	1 hr.	NR	5	68	L- 1	20
	Sulfur trioxide	Los Angeles C.A.P.C.D.	8/8	51	9/15	51	1	1 hr.	6/day	16	75	L- 1	20
Artesia	Oxidant	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Azusa	Aldehydes	Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	9/day	5	2	L- 1	
	Carbon monoxide	Los Angeles C.A.P.C.D.	11/4	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Dustfall	Los Angeles C.A.P.C.D.	10/11	55	12/31	55	1	30 days	12/yr.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Hydrocarbons	Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	NR	19	39	L- 1	
	Oxidant	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
		Los Angeles C.A.P.C.D.	8/6	54	12/31	55	1	Cont.	Cont.	33	57	L- 1	21
Bassett	Oxidant	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Burbank	Aldehydes	Los Angeles C.A.P.C.D.	8/2	51	11/30	55	1	1 hr.	8/day	5	2	L- 1	20
	Carbon monoxide	Los Angeles C.A.P.C.D.	10/2	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Dustfall	Los Angeles C.A.P.C.D.	10/1	46	12/31	55	1	30 days	1/mo.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Hydrocarbons	Los Angeles C.A.P.C.D.	8/2	51	11/30	55	1	1 hr.	NR	19	39	L- 1	20
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	8/2	51	10/18	51	1	Inst.	24/day	20	46 48	L- 1	20
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	2 min.	8-24/day	20	46	(R- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Burbank	Oxidant	Los Angeles C.A.P.C.D.	8/2	51	12/31	55	1	Cont.	Cont.	33	57	L- 1	21
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
	Sulfur dioxide	Los Angeles C.A.P.C.D.	8/2	51	10/18	51	1	1 hr.	24/day	5	68	L- 1	20
	Sulfur trioxide	Los Angeles C.A.P.C.D.	8/2	51	10/18	51	1	NR	7/day	16	75	L- 1	20
	Suspended particulate	Los Angeles C.A.P.C.D.	10/2	55	12/31	55	1	1 hr.	24/day	16		L- 1	21
	Soiling										104		
Dominguez	Aldehydes	Los Angeles C.A.P.C.D.	7/18	51	11/6	51	1	1 hr.	8/day	5	2	L- 1	20
	Carbon monoxide	Los Angeles C.A.P.C.D.	9/11	51	11/6	51	1	1 hr.	NR	41	8	L- 1	20

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Dominguez	Dustfall	Los Angeles C.A.P.C.D.	10/1	45	12/31	55	1	30 days	12/yr.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Hydrocarbons	Los Angeles C.A.P.C.D.	7/18	51	11/6	51	1	1 hr.	Several per day	19	39	L- 1	20
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	7/18	51	11/6	51	1	1 hr.	24/day	5	47	L- 1	20
	Oxidant	Los Angeles C.A.P.C.D.	7/18	51	8/6	54	1	Cont.	Cont.	33	57	L- 1	
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
	Sulfur dioxide	Los Angeles C.A.P.C.D.	11/16	49	11/6	51	2	Cont.	Cont.	52	69	L- 1	20
	Sulfur trioxide	Los Angeles C.A.P.C.D.	7/18	51	11/6	51	1	1 hr.	6/day	16	75	L- 1	20

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
El Monte	Aldehydes	Los Angeles C.A.P.C.D.	7/26	51	11/30	55	1	1 hr.	8/day	5	2	L- 1	4
	Carbon monoxide	Los Angeles C.A.P.C.D.	10/6	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Hydrocarbons	Los Angeles C.A.P.C.D.	7/26	51	11/30	55	1	1 hr.	NR	19	39	L- 1	4
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	7/26	51	10/19	51	1	Inst.	6/day	20	46	L- 1	4
	Oxidant	Los Angeles C.A.P.C.D.	7/6	51	12/31	55	1	Cont.	Cont.	33	57	L- 1	3 21
	Sulfur dioxide	Los Angeles C.A.P.C.D.	7/26	51	10/19	51	1	1 hr.	6/day	5	68	L- 1	4
	Sulfur trioxide	Los Angeles C.A.P.C.D.	7/26	51	10/19	51	1	1 hr.	6/day	16	75	L- 1	4
El Segundo	Sulfur dioxide	Los Angeles C.A.P.C.D.	11/3	54	12/31	55	1	Cont.	Cont.	52	69	L- 1	21
Lancaster	Oxidant	U.S. Rubber Co., Los Angeles, California	5/10	49	6/29	51	1	10 min.	Varied	42	57	(B- 1)	20

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Lennox	Carbon monoxide	Los Angeles C.A.P.C.D.	10/4	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Oxidant	Los Angeles C.A.P.C.D.	10/19	55	12/31	55	1	Cont.	Cont.	33	57	L- 1	21
Los Angeles	Aldehydes	S.R.I.	11/1	48	5/15	49	1	NR	NR	5	2	(S- 2)	
		Los Angeles C.A.P.C.D.	8/1	51	11/8	51	1	1 hr.	8/day	5	2	L- 1	20 24
		Los Angeles C.A.P.C.D.	8/3	51	11/30	55	1	1 hr.	8/day	5	2	L- 1	4 33
		Los Angeles C.A.P.C.D.	10/1	52	12/31	55	2	1 hr.	8/day	5	2	L- 1	4 6 20 21 23
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	8/day	5	2	(R- 1)	29
		Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	8/day	5	2	L- 1	25

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Aldehydes	Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	8/day	5	2	L- 1	28
	Ammonia	S.R.I.	12/1	48	5/15	49	1	NR	NR	5	4	(S- 2)	
	Carbon monoxide	Los Angeles C.A.P.C.D.	9/11	51	12/31	55	2	Cont.	Cont.	9	10	L- 1	6 7 21 23
		Los Angeles C.A.P.C.D.	9/17	51	11/8	51	1	1 hr.	NR	41	8	L- 1	20 24
		Los Angeles C.A.P.C.D.	9/21	51	12/31	55	1	Cont.	Cont.	9	10	L- 1	3 21 33
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Varied	8/day	43	8	(R- 1)	14 29
		Los Angeles C.A.P.C.D.	10/3	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21 25
		Los Angeles C.A.P.C.D.	11/9	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21 28

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	5
	Dustfall	Los Angeles C.A.P.C.D.	10/1	45	12/31	55	2	30 days	12/yr.	14		L- 1	20 6
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Dustfall	Los Angeles C.A.P.C.D.	NR	46	NR	48	NR	30 days	12/yr.	14	NR	(M- 7)	18
	Dustfall	Los Angeles C.A.P.C.D.	8/1	46	12/31	55	1	30 days	12/yr.	14		L- 1	21 33
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES (SEE LAST PAGE OF THIS SECTION)
Los Angeles													
Los Angeles	Dustfall	Los Angeles C.A.P.C.D.	7/1	48	12/31	55	1	30 days	12/yr.	14		L- 1	13 21 27
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Dustfall	Los Angeles C.A.P.C.D.	9/1	52	12/31	55	1	30 days	12/yr.	14		L- 1	21 30
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Dustfall	Los Angeles C.A.P.C.D.	9/1	52	12/31	55	1	30 days	12/yr.	14		L- 1	21 31
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Hydrocarbons	Los Angeles C.A.P.C.D.	9/17	51	11/8	51	1	1 hr.	NR	19	39	L- 1	20 24
		Los Angeles C.A.P.C.D.	9/21	51	11/30	55	1	1 hr.	NR	19	39	L- 1	4 33
		Los Angeles C.A.P.C.D.	1/4	52	12/31	55	2	1 hr.	NR	19	39	L- 1	4 6 20 21 23
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	8/day	19	39	(R- 1)	29
		Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	NR	19	39	L- 1	4 25
		Los Angeles C.A.P.C.D.	9/15	55	11/30	55	1	1 hr.	NR	19	39	L- 1	4 28
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	1/20	50	12/31	55	2	Inst.	16/day	20	48	L- 1	6 8 20 21 23

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Nitrogen dioxide	Los Angeles C.A.P.C.D.	8/1	51	11/8	51	1	1 hr.	NR	20	46	L- 1	20 24
		Los Angeles C.A.P.C.D.	8/3	51	9/21	51	1	Inst.	1/hr.	20	46	L- 1	20 33
		Chaney Lab. for A.P.F.	8/1	54	11/30	54	1	2 min.	8-24/day	20	46	(R- 1)	29
		Los Angeles C.A.P.C.D.	8/9	54	11/30	54	1	Inst.	1/hr.	20	48	L- 1	32
	Nitrogen oxides	S.R.I.	11/1	48	5/15	49	1	NR	NR	5	50	(S- 2)	
	Oxidant	U.S.Rubber Co., Los Angeles, California	3/1	50	7/30	51	1	10 min.	Varied	42	57	(B- 1)	
		Los Angeles C.A.P.C.D.	7/19	51	12/31	55	2	Cont.	Cont.	33	57	L- 1	6 10 21 23
		Los Angeles C.A.P.C.D.	8/1	51	11/8	51	1	1 hr.	NR	5	57	L- 1	20 24

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Oxidant	A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	29
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	57	(R- 1)	35
		Los Angeles C.A.P.C.D.	8/3	51	12/31	55	1	Cont.	Cont.	33	57	L- 1	3 10 21 33
		Los Angeles C.A.P.C.D.	8/6	54	11/30	54	1	Cont.	Cont.	33	57	L- 1	32
		Los Angeles C.A.P.C.D.	10/20	55	12/31	55	1	Cont.	Cont.	33	57	L- 1	21 25
		Los Angeles C.A.P.C.D.	10/28	55	12/31	55	1	Cont.	Cont.	33	57	L- 1	21 28
	Ozone	Los Angeles C.A.P.C.D.	8/20	51	12/31	55	2	1-20 min.	12/day	15	59	L- 1	6 9 21 23
		Los Angeles C.A.P.C.D.	9/17	51	11/8	51	1	1-20 min.	1/hr.	15	59	L- 1	20 24

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Ozone	Los Angeles C.A.P.C.D.	11/6	55	12/31	55	1	1-20 min.	6/day	15	59	L- 1	9 21 33
	Sulfur dioxide	S.R.I.	11/1	48	5/11	49	1	NR	NR	5	66	(S- 2)	
		Los Angeles C.A.P.C.D.	7/30	49	12/31	55	2	Cont.	Cont.	52	69	L- 1	6 21 23
		Los Angeles C.A.P.C.D.	8/1	51	11/8	51	1	1 hr.	NR	5	68	L- 1	20 24
		Los Angeles C.A.P.C.D.	8/3	51	9/21	51	1	1 hr.	NR	5	68	L- 1	20 33
		Los Angeles C.A.P.C.D.	2/10	53	2/28	55	1	Cont.	Cont.	52	69	L- 1	30
		Los Angeles C.A.P.C.D.	4/1	54	8/23	54	1	Cont.	Cont.	52	69	L- 1	26
		A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	52	69	(R- 1)	29
		Los Angeles City D.W.P.	1/16	55	12/31	55	1	Cont.	Cont.	52	69	L- 2	21 34

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Sulfur trioxide	Los Angeles C.A.P.C.D.	7/30	49	9/21	51	2	1 hr.	6/day	21	NR	L- 1	6 20 23
		S.R.I.	11/1	49	5/15	49	1	NR	NR	53	76	(S- 2)	
		Los Angeles C.A.P.C.D.	8/1	51	11/8	51	1	1 hr.	6/day	16	NR	L- 1	20 24
		Los Angeles C.A.P.C.D.	8/3	51	9/21	51	1	1 hr.	6/day	16	75	L- 1	20 33
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	5 20
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	5 20
	Total wt. Carbon Ash										86		
	(Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Suspended particulate (Continued)												
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	5 20
	Soiling										106		
	Suspended particulate	Los Angeles C.A.P.C.D.	8/14	48	NR	NR	NR	30 days	1/mo.	14		(M- 7)	17
	Sulfates										NR		
	Suspended particulate	Los Angeles C.A.P.C.D.	9/6	49	12/31	55	2	1 hr.	24/day	49		L- 1	12 21 23
	Soiling										104		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Suspended particulate	Los Angeles C.A.P.C.D.	9/14	51	12/31	55	2	1-2 hr.	4/day	22		L- 1	11 12 20 21 23
	Organics										95		
	Suspended particulate	California State D.P.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	2/24	54	3/12	54	1	24 hr.	1/wk.	21		C-13	22
			3/12	54	3/14	54	2					S-12	
			3/14	54	5/14	54	1					(C-12)	
			5/14	54	5/29	54	2					(C-13)	
			5/29	54	7/9	54	1					(T- 3)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates (Continued)										107		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Los Angeles	Suspended particulate (Continued)												
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	The Kettering Lab. for A.P.F.	8/1	54	11/30	54	1	24 hr.	1/day	21		(R- 1)	29
	NR										88		
	NR										90		
	Suspended particulate	The Kettering Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	NR	47		(R- 1)	29
	Lead										89		
	Soiling										105		
Long Beach	Sulfur dioxide	Los Angeles C.A.P.C.D.	3/14	55	10/-	55	2	Cont.	Cont.	52	69	L- 1	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Manhattan Beach	Dustfall	Los Angeles C.A.P.C.D.	1/1	47	12/31	55	1	30 days	12/yr.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
Pasadena	Aldehydes	The Kettering Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	NR	5	2	(R- 1)	
		Los Angeles C.A.P.C.D.	9/16	55	12/31	55	1	1 hr.	8/day	5	2	L- 1	21
	Carbon monoxide	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Varied	NR	41	8	(R- 1)	
		Los Angeles C.A.P.C.D.	10/5	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Hydrocarbons	Los Angeles C.A.P.C.D.	8/21	52	12/31	55	1	1 hr.	NR	19	39	L- 1	21
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	NR	19	39	(R- 1)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Pasadena	Nitrogen dioxide	Chaney Lab. for A.P.F.	8/1	54	11/30	54	1	2 min.	8-24/day	20	46	(R- 1)	
		A.P.F.	7/15	55	11/15	55	1	Cont.	Cont.	33	48	(R- 1)	
		Los Angeles C.A.P.C.D.	9/1	55	12/31	55	1	Inst.	16/day	20	48	L- 1	21
	Oxidant	Los Angeles C.A.P.C.D.	11/12	52	12/31	55	1	10 min.	1/hr.	5	53	L- 1	21
		Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
		Los Angeles C.A.P.C.D.	8/6	54	12/31	55	1	Cont.	Cont.	33	57	L- 1	21
		A.P.F.	7/15	55	11/15	55	1	Cont.	Cont.	33	55	(R- 1)	
	Ozone	A.P.F.	7/15	55	11/15	55	1	Cont.	Cont.	34	60	(R- 1)	
		Los Angeles C.A.P.C.D.	9/1	55	12/31	55	1	1-20 min.	6/day	15	59	L- 1	9 21

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Pasadena	Suspended particulate	C.I.T.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	2/23	54	3/22	55	1	24 hr.	1/wk. (varied)	21		C-13 S-12 (C-12) (C-13) (T- 3)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Pasadena	Suspended particulate	The Kettering Lab. for A.P.F.	8/1	54	11/30	54	1	1 hr.	NR	47		(R- 1)	
	Lead										89		
	Soiling										105		
	Suspended particulate	C.I.T. and U.S.D.H.E.W., P.H.S.	3/21	55	10/20	55	1	24 hr.	2/mo.	21		C-13 S-12 (C-12)	19 36
	Total wt.										86	(C-13) (T- 3)	
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, (Continued)										90		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
Pasadena	Suspended particulate (Continued)												
	Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
	Suspended particulate	Los Angeles C.A.P.C.D.	7/20	55	12/31	55	1	1-2 hr.	NR	23		L- 1	21
	Organics										95 97		
Redondo Beach	Sulfur dioxide	Los Angeles C.A.P.C.D.	11/10	55	12/31	55	1	Cont.	Cont.	52	69	L- 1	21
Rivera	Carbon monoxide	Los Angeles C.A.P.C.D.	7/5	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Oxidant	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
		Los Angeles C.A.P.C.D.	8/6	54	12/31	55	1	Cont.	Cont.	33	57	L- 1	21

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
South Gate	Aldehydes	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	1 hr.	8/day	5	2	L- 1	20
	Dustfall	Los Angeles C.A.P.C.D.	11/1	46	12/31	55	1	30 days	12/yr.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
	Hydrocarbons	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	1 hr.	NR	19	39	L- 1	2
	Nitrogen dioxide	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	Inst.	1/hr.	20	46	L- 1	20
	Oxidant	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	1 hr.	NR	5	57	L- 1	20
	Ozone	Los Angeles C.A.P.C.D.	8/20	51	10/19	51	1	1-20 min.	1/hr.	15	59	L- 1	20
	Sulfur dioxide	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	1 hr.	NR	5	NR	L- 1	20

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Los Angeles													
South Gate	Sulfur trioxide	Los Angeles C.A.P.C.D.	8/7	51	10/19	51	1	1 hr.	6/day	16	75	L- 1	20
Temple City	Dustfall	Los Angeles C.A.P.C.D.	10/1	46	12/31	55	1	30 days	12/yr.	14		L- 1	21
	Total wt. Solubles										22		
	Acidity										22		
	Chlorides										22		
Torrance	Carbon monoxide	Los Angeles C.A.P.C.D.	12/20	55	12/31	55	1	Cont.	Cont.	9	10	L- 1	21
	Nitrogen dioxide	Chaney Lab. for A.P.F.	8/1	54	11/30	54	1	2 min.	8-24/day	20	46	(R- 1)	
	Oxidant	Truesdail Lab. for A.P.F.	8/1	54	11/30	54	1	Cont.	Cont.	33	55	(R- 1)	
		Los Angeles C.A.P.C.D.	12/20	55	12/31	55	1	Cont.	Cont.	33	57	L- 1	21
	Ozone	Los Angeles C.A.P.C.D.	11/8	55	12/31	55	1	1-20 min.	6/day	15	59	L- 1	21

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Los Angeles													
Torrance	Sulfur dioxide	Los Angeles C.A.P.C.D.	12/29	55	12/31	55	1	Cont.	Cont.	52	69	L- 1	21
San Bernardino													
Morongo Valley	Oxidant	U.S. Rubber Co., Los Angeles, California	11/3	49	6/3	51	1	10 min.	Varied	42	57	(B- 1)	20
San Francisco													
San Francisco	Aldehydes	San Francisco C.H.D.	9/13	55	10/31	55	4	1 hr.	2/mo.	26	3	S- 4	
	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	5
	Sulfur	Selby Smelter Commission	9/-	13	5/-	14	1 rov'g	6-10 hr.	1/day	20	64	(H- 1)	
	Sulfur dioxide	Selby Smelter Commission	9/- 2/- 3/-	13 14 14	9/- 2/- 3/-	13 14 14	1 rov'g	15 sec.	7-15/day	20	71	(H- 1)	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
San Francisco													
San Francisco	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	5
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	5 20
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	5 20
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
San Francisco													
San Francisco	Suspended particulate	San Francisco D.P.H.; The Kettering Lab., and U.S.D.H.E.W., P.H.S.	2/9 3/3 2/14	54 54 55	3/3 2/14 2/22	54 55 55	1 2 1	24 hr.	1/wk. (varied)	21		S-12 S-13 (C-12) (C-13)	22
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
San Francisco													
San Francisco	Suspended particulate	San Francisco D.P.H. and U.S.D.H.E.W., P.H.S.	7/6	55	12/13	55	1	24 hr.	2-4/mo.	21		S-12 S-13 (C-12) (C-13)	21
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
San Francisco Bay Area	Oxidant	California State D.P.H.	9/1	54	12/31	55	22	NR	1/wk.	5	53	(R- 2)	21

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
San Mateo													
East Palo Alto	Aldehydes	San Mateo C.H.D.	9/22	55	10/31	55	1	1 hr.	2/mo.	26	3	S- 3	20
Menlo Park	Aldehydes	San Mateo C.H.D.	9/2	55	10/31	55	1	1 hr.	2/mo.	26	3	S- 3	
Redwood City	Aldehydes	San Mateo C.H.D.	9/20	54	10/31	55	1	1 hr.	2/mo.	26	3	S- 3	
Santa Clara													
Alviso	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
Cupertino	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
East San Jose	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
Gilroy	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
Los Gatos	Aldehydes	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	1 hr.	2/mo.	26	3	S- 1	
	Carbon monoxide	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	15 min.	Varied	43	8	S- 1	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Santa Clara													
Los Gatos	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
	Hydrogen sulfide	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	Inst.	Varied	44	42	S- 1	
	Nitrogen oxides	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	Inst.	Varied	20	51	S- 1	
	Oxidant	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	10 min.	2/mo.	26	53	S- 1	
	Sulfur dioxide	Santa Clara C.A.P.C.D.	5/-	53	12/-	55	1	1 hr.	2/mo.	26	73	S- 1	
	Suspended particulate	Santa Clara C.A.P.C.D.	5/-	53	12/-	55	1	2 hr.	2/mo.	35	85	S- 1	
Palo Alto	Aldehydes	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	1 hr.	2/mo.	26	3	S- 1	
	Carbon monoxide	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	15 min.	Varied	43	8	S- 1	
	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Santa Clara													
Palo Alto	Hydrogen sulfide	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	Inst.	Varied	44	42	S- 1	
	Nitrogen oxides	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	Inst.	Varied	20	51	S- 1	
	Sulfur dioxide	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	1 hr.	2/mo.	26	73	S- 1	
	Suspended particulate	Santa Clara C.A.P.C.D.	5/-	53	12/1	55	1	2 hr.	2/mo.	35	85	S- 1	
Permanente	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	8/-	55	1	30 days	12/yr.	14	22	S- 1	
Santa Clara	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	
San Jose	Aldehydes	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	1 hr.	2/mo.	26	3	S- 1	
	Carbon monoxide	Santa Clara C.A.P.C.D.	5/-	52	12/1	55	1	15 min.	Varied	43	8	S- 1	
	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Santa Clara													
San Jose	Hydrogen sulfide	Santa Clara C.A.P.C.D.	1/-	51	12/1	55	1	Inst.	Varied	44	42	S- 1	
	Nitrogen oxides	Santa Clara C.A.P.C.D.	5/-	52	12/1	55	1	Inst.	Varied	20	51	S- 1	
	Oxidant	Santa Clara C.A.P.C.D.	5/-	52	12/1	55	1	10 min.	2/mo.	26	53	S- 1 (C- 1)	15
		Santa Clara C.H.D.	7/2	54	10/31	55	1	10 min.	1/day (varied)	5	53	S- 2 (C- 1)	1
		Santa Clara C.A.P.C.D.	7/-	54	12/1	55	1	10 min.	1/day	26	53	S- 1 (C- 1)	16
	Sulfur dioxide	Santa Clara C.A.P.C.D.	1/-	51	12/1	55	1	1 hr.	2/mo.	26	73	S- 1	
	Suspended particulate	Santa Clara C.A.P.C.D.	5/-	52	12/1	55	1	2 hr.	2/mo.	35	86	S- 1	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Santa Clara													
San Jose	Suspended particulate	Santa Clara C.H.D. and U.S.D.H.E.W., P.H.S.	11/14	55	12/20	55	1	24 hrs.	2/mo.	21		S- 2 S-12	36
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Sunnyvale	Dustfall	Santa Clara C.A.P.C.D.	6/-	52	12/1	55	1	30 days	12/yr.	14	22	S- 1	

STATE: CALIFORNIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Solano													
Benico - Vallejo Vicinity	Dustfall	Selby Smelter Commission	10/-	13	5/-	14	3	13-102 days	Varied	7		(H- 1)	
	Total wt.										21		
	As,Pb										23		
	Sulfur dioxide	Selby Smelter Commission	9/-	13	11/-	13	2 fixed & 1 rov'g	15 sec.	30/day (varied)	20	71	(H- 1)	
		Selby Smelter Commission	3/-	14	5/-	14	2 fixed & 1 rov'g	15 sec.	30/day (varied)	20	71	(H- 1)	

Notes: CALIFORNIA

1. Stations were in urban, rural, industrial, commercial, and residential areas at elevations ranging from sea level to 1,000 feet.

2. Early runs employed combustion trains.

3. Early runs were done intermittently during the time period stated.

4. Analyses were performed intermittently during the time period stated.

5. Results of air analyses were reported as averages for four cities.

6. Items shown were measured at both locations.

7. M.S.A. bulb method was used intermittently prior to 1955.

8. Analysis was originally by Griess method.

9. Analyses were performed as the need arose.

10. Original samples were collected manually.

11. Analyses were performed intermittently during the time period stated. Cascade

impactors were used for the early runs.

12. Data is that for central Los Angeles only.

13. Two jars were used.

14. A siphon bottle was used to move air through the tubes.

15. Sampling was done at a downtown station.

16. Sampling was done at the County Health Center.

17. Techniques of microchemical analysis are described.

18. Dustfall data is compared with Cincinnati, Ohio; Rochester, New York; Chicago, Illinois and Detroit, Michigan.

19. Acetone extraction was used before July 1, 1955.

20. Sampling was done intermittently during the time period stated.

21. Sampling continued after December 31, 1955.

22. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modifica-

tion of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

23. Sampling was done in the central part and Vernon.

24. Sampling was done in Eagle Rock.

25. Sampling was done in Highland Park.

26. Sampling was done in Hollywood.

27. Sampling was done in North Hollywood.

28. Sampling was done in Reseda.

29. Sampling was done on Sixth and Spring Streets.

30. Sampling was done in Sun Valley.

31. Sampling was done in Van Nuys.

32. Sampling was done in Venice.

33. Sampling was done in the west area.

34. Sampling was done in Wilmington.

35. Sampling was done in Welshire.

36. Sampling continued.

STATE: COLORADO

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Denver													
Denver	Nitrogen dioxide	Colorado State D.P.H.	6/-	55	8/-	55	Varied	1-3 hr.	Varied	25	NR	C- 3	
	Suspended particulate	City of Denver D.H.H.; The Kettering Lab.; and U.S.D.H.E.W., P.H.S.	6/16	54	8/4	54	1	24 hr.	1/wk. (varied)	21		D- 4 S-12 (T- 2) (T- 3)	3
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: COLORADO

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Denver													
Denver	Suspended particulate	City of Denver D.H.H. and D.B.; and U.S.D.H.E.W., P.H.S.	8/3	54	9/15	54	1	24 hr.	1-2/mo.	21		D- 4	1
			9/15	54	7/8	55	2					S-12	2
			7/8	55	7/20	55	1					(T- 2)	3
	Total wt.										86	(T- 3)	
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: COLORADO

1. Acetone extraction was used before July 1, 1955.

2. Sampling continued after December 31, 195?.

3. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromotography on silica gel.

STATE: CONNECTICUT

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hartford													
E. Hartford	Dustfall	The Henry Souther Eng. Co., Hartford, Connecticut	4/27	47	6/25	47	10	30 days	1/mo.	14		(H- 7)	
	Total wt. Solubles Insolubles										21		
New Haven													
New Haven	Dustfall	I.H.F.A., Inc.	1/-	52	8/-	52	15	30 days	1/mo.	14		(H- 2)	
	Total wt. Carbon										21		
	Sulfur										NR		
	Dustfall	I.H.F.A., Inc.	3/12	52	8/13	52	62	Few hr.	Varied	7		(H- 2)	
	Particle count										30		
	Suspended particulate	I.H.F.A., Inc.	1/-	52	8/-	52	1 rov'g @ 5 sites	1-2 mo.	1-2/mo.	36	NR	(H- 2)	2

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New Haven													
Waterbury	Suspended particulate	Connecticut State D.P.H. and U.S.D.H.E.W., P.H.S	1/13	55	12/2	55	1	24 hr.	1-3/mo.	21		C-14 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: CONNECTICUT

1. Acetone extraction was used before July 1, 1955.

2. A high volume electrostatic precipitator was used.

3. Sampling continued after December 31, 1955.

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
District of Columbia													
Washington	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 4
	Dustfall	U.S.D.T., P.H.S.	10/-	32	8/-	33	1	7 day	1/wk.	14		(I- 1)	
	Total wt. Carbon Ash										21		
	Fe,Si										23		
	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	A.H.F.A., Inc.	11/-	26	10/-	28	1	Inst.	1/day	20	70	(C-11)	2
		U.S.W.B. Station, American U.	11/-	27	10/-	28	1	15 sec.	1/day	20	71	(Q- 1)	
		A.H.F.A., Inc.	11/12	36	10/15	37	1 rov'g @ 124 sites	10 min.	20/day	25	70	(C-11)	2
		U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(F- 2) (C- 9)	

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
District of Columbia													
Washington	Suspended particulate	U.S.W.B.	12/-	22	6/-	31	1	Inst.	1/day	4		(K- 1) (K- 2)	
	Particle count										98		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	8/-	33	1	4 min.	80/day	32		(I- 1)	1 4
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	1/-	32	9/-	33	1	Inst.	3-6/day	4		(I- 1)	1 4
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	2/-	32	9/-	33	1	7 hr.	1/day	25		(I- 1)	1 4
	Total wt. Carbon Ash										86		
	Iron oxide (Continued)										88		

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
District of Columbia													
Washington	Suspended particulate (Continued)												
	Silica										88		
	Sulfur										88		
	Suspended particulate	District of Columbia D.P.H.; The Kettering Lab; and U.S.D.H.E.W., P.H.S.	2/24	54	10/12	54	1	24 hr.	1/wk. (varied)	21		D- 5	
			2/3	55	5/27	55	1					S-12 (C-12) (C-13)	
	Total wt.									86			
	Chlorides									80			
	Fluorides									84			
	Nitrates									91			
	Organics									92			
	pH									102			
	Radioactivity									103			
	(Continued)												

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
District of Columbia													
Washington	Suspended particulate (Continued)												
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	District of Columbia D.P.H.; and U.S.D.H.E.W., P.H.S.	2/23	55	11/29	55	1	24 hr.	1-3/mo	21		D- 5 S-12 (C-12) (C-13)	5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity (Continued)										103		

DISTRICT OF COLUMBIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
District of Columbia Washington	Suspended particulate (Continued) Sulfates Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										107 90		

Notes: DISTRICT OF COLUMBIA

1. Results of air analyses were shown as averages for four cities.

2. Sampling was a twenty-four-hour day, seven-day week urban area coverage.

3. Acetone extraction was used before July 1, 1955.

4. Sampling was done intermittently during the time period stated.

5. Sampling continued after December 31, 1955.

STATE: FLORIDA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
(Gulf Coast between Ft. Meyers and Sarasota)	Suspended particulate	Florida State Bd.H.	2/-	54	6/-	54	NR	2 days	Varied	22	NR	F- 1	1
Hillsborough													
NR	Fluorides	U. of Florida, Col. of Eng.	12/-	53	4/-	55	6 fixed & 6 rov'g	10 min. to 4 hr.	Varied	5 25	36	F- 4	4
	Sulfur dioxide	U. of Florida, Col. of Eng.	12/-	53	4/-	55	6 fixed & 6 rov'g	10 min. to 4 hr.	Varied	5 25	74	F- 4	
Tampa	Hydrogen sulfide	Florida State Bd.H.	8/-	47	8/-	47	2	NR	Varied	NR	NR	F- 1	
	Suspended particulate	City of Tampa D.P.W.; The Kettering Lab.and U.S.D.H.E.W., P.H.S.	2/23 4/14 5/6	54 54 54	4/14 5/6 6/2	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		S-12 T- 4	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	(Continued)												

STATE: FLORIDA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hillsborough													
Tampa	Suspended particulate (Continued)												
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	City of Tampa D.P.W. and U.S.D.H.E.W., P.H.S.	1/18	55	12/20	55	1	24 hr.	1-3/mo	21		S-12 T- 4	3 6
	Total wt.										86		
	Chlorides										80		
	(Continued)												

STATE: FLORIDA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hillsborough													
Tampa	Suspended particulate (Continued)												
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Pinellas													
Tarpon Springs	Fluorides	Florida State Bd.H.	5/-	48	12/-	48	Varied	NR	Varied	25	NR	F- 1	2
	Sulfur dioxide	Florida State Bd.H.	5/-	48	12/-	48	Varied	NR	Varied	25	NR	F- 1	2

STATE: FLORIDA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Polk													
Mulberry-Bartow Area	Sulfur dioxide	Florida State Bd.H.	11/-	54	8/-	55	NR	1-3 min.	Varied	26	NR	F- 1	5

Notes: FLORIDA

1. An air sample of about 100,000 cubic feet was obtained.

2. Samples were taken at several locations in a chemical plant and at various locations outside of the plant.

3. Acetone extraction was used before July 1, 1955.

4. Zirconium-alizarin spectrophotometric analyses were performed after February 1954.

5. Sampling was done intermittently during the time period stated.

6. Sampling continued after December 31, 1955.

STATE: GEORGIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Fulton													
Atlanta	Suspended particulate	Fulton C.H.D.; and U.S.D.H.E.W., P.H.S.	12/18	53	2/15	54	3	24 hr.	1/wk. (varied)	21		F- 2 S-12	
	Radioactivity										103		
	Suspended particulate	Fulton C.H.D.; The Kettering Lab.; and U.S.D.H.E.W., P.H.S.	2/15 2/25 4/21	54 54 54	2/25 4/21 5/28	54 54 54	1 2 3	24 hr.	1/wk. (varied)	21		F- 2 S-12 (C-12) (C-13)	3
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: GEORGIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Fulton													
Atlanta	Suspended particulate	Fulton C.H.D. and U.S.D.H.E.W., P.H.S.	2/24	55	12/21	55	1	24 hr.	1/wk. (varied)	21		F- 2 S-12 (C-12) (C-13)	1 2 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: GEORGIA

1. Acetone extraction was used before July 1, 1955.

2. Sampling continued after December 31, 1955.

3. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromotography on silica gel.

TERRITORY OF HAWAII

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES				NUMBER OF STATIONS	SAMPLING SCHEDULE		APPENDIX A		APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
			FROM		TO			LENGTH OF EACH SAMPLING PERIOD	FREQUENCY SAMPLES WERE TAKEN	SAMPLING EQUIPMENT	ANALYTICAL METHODS		
			MONTH AND DAY	YEAR	MONTH AND DAY	YEAR							
Territory of Hawaii													
Honolulu	Dustfall Total wt. Combustibles Ash	Territory of Hawaii D.H.	10/-	51	12/-	51	12	30 days	1/mo.	14	21	H- 1	

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Carbon monoxide	City of Chicago D.H.	NR	26	NR	28	1 rov'g	NR	Varied	20	11	(C- 3)	
	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	7 10
	Dustfall	Chicago Association of Commerce and Industry	NR	12	NR	13	NR	NR	NR	50		C- 4 (S-14)	1
	Ash										21		
	Organics										21		
	Nitrogen compounds										23		
	Al_2O_3, CaO, Fe_2O_3, MgO, S, SiO_2										23		

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Dustfall	Chicago Association of Commerce and Industry	NR	12	NR	13	NR	NR	NR	40		C- 4 (S-14)	2
	Ammonium										23		
	Chlorides										23		
	Nitrous acid										23		
	Sulfur compounds										23		
	Dustfall	Chicago Association of Commerce and Industry	NR	12	NR	13	NR	NR	NR	14	21	C- 4 (S-14)	4
	Dustfall	City of Chicago D.A.P.C. and U. of Illinois Experiment Station	NR	26	12/31	55	24	30 days	12/yr.	14		C- 4	5 11
	Total wt.										21		
	Solubles												
	Insolubles												
	Carbon												
	Noncombustible												
	Bitumen										27		

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Sulfur dioxide	A.H.F.A., Inc.	12/18 3/25 8/6	36 37 37	12/21 4/23 9/5	36 37 37	1 rov'g @ 90 sites	10 min.	30/day	27	70	(C-11)	
		City of Chicago D.A.P.C. and U. of Illinois Experiment Station	1/27	37	4/16	37	1 rov'g	8 min.	0-20/day	5	68	C- 4 (S- 3)	6
	Suspended particulate	Chicago Association of Commerce and Industry	NR	12	NR	13	NR	NR	NR	NR		C- 4 (S-14)	3
	Ammonium										88		
	Chlorides										88		
	Nitrous acid										88		
	Sulfur compounds										88		

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Suspended particulate	Chicago Association of Commerce and Industry	NR	12	NR	13	1 rov'g	6 hr.	NR	18		C- 4 (S-14)	
	Total wt.										86		
	Ammonium										88		
	Chlorides										88		
	Nitrous acid										88		
	Sulfuric acid										88		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	7, 10
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	4 min.	80/day	32		(I- 1)	7
	Soiling										106		

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	7, 10
	Total wt.										86		
	Carbon												
	Ash												
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	Armour Research Foundation	5/-	53	1/-	54	NR	NR	NR	47		A- 3	
	Soiling										104		
	Suspended particulate	City of Chicago	5/5	54	5/10	54	1	24 hr.	1/wk. (varied)	21		C- 4	12
		D.A.P.C.; The	5/10	54	6/2	54	2					S-12	
		Kettering Lab.	6/2	54	6/11	54	3					(C-12)	
		and U.S.D.H.E.W.,	10/7	54	2/16	55	1					(C-13)	
	Total wt.	P.H.S.									86	(T- 2)	
	Chlorides										80		
	(Continued)												

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Suspended particulate (Continued)												
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	City of Chicago	1/19	55	1/26	55	1	24 hr.	1-4/mo.	21		C- 4	9
		D.A.P.C. and	1/26	55	2/23	55	2					S-12	11
		U.S.D.H.E.W.,	2/23	55	12/14	55	3					(C-12)	
		P.H.S.	12/14	55	12/28	55	1					(C-13)	
	Total wt. (Continued)										86	(T- 2)	

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cook													
Chicago	Suspended particulate (Continued)												
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Peoria													
Peoria	Dustfall	City of Peoria D.I. and Div. A.P.C.	9/-	48	4/-	49	16	30 days	1/mo.	14	21	P- 1	

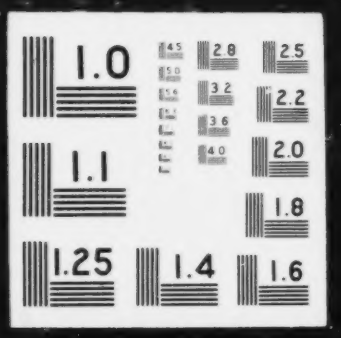
STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Peoria													
Peoria	Dustfall	City of Peoria D.I. and Div. A.P.C.	12/-	52	12/31	55	15	30 days	12/yr.	14	21	P- 1	11
Sangamon													
Springfield	Dustfall	Capitol Chapter of Professional Engineers	9/-	51	7/-	52	8	30 days	1/mo.	14	21	I- 2 C- 6 (A- 6)	
	Sulfur dioxide	A.H.F.A., Inc.	9/7	37	9/11	37	1 rov'g @ 32 sites	10 min.	35/day	27	70	(C-11)	
St. Clair													
East St. Louis	Sulfur dioxide	A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g @ 73 sites	10 min.	20/day	27	70	(C-11)	8

STATE: ILLINOIS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
St. Clair													
East St. Louis	Suspended particulate	East St. Louis East Side Health District and U.S.D.H.E.W., P.H.S.	8/2	55	9/20	55	1	24 hr.	2/mo. (varied)	21		E- 3 S-12	11
			9/20	55	12/28	55	2						
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

2 OF 4
PB
216244



Notes: ILLINOIS

1. Measured areas of sidewalks were swept for dust samples.

2. Patches of snow were removed and melted.

3. Rain samples were analyzed.

4. Pans for the collection of samples were placed along railroad rights of way.

5. The years of 1932, 1933, and 1934 were missed.

6. Samples were collected in many parts of town.

7. Results of air analyses were shown as averages for five cities.

8. Sampling was a twenty-four-hour day, seven-day week urban area coverage.

9. Acetone extraction was used before July 1, 1955.

10. Sampling was done intermittently during the time period stated.

11. Sampling continued after December 31, 1955.

12. The organic portion was occasionally separated into water soluble, basic, strongly

acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromotography on silica gel.

STATE: INDIANA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lake													
East Chicago	Dustfall	City of East Chicago B.A.P.C.	7/-	49	5/-	51	13	30 days	12/yr.	14		E- 1	1
	Total wt.										21		
	Carbon												
	Noncombustible												
	Solubles												
	Insolubles												
	Bitumen										27		
	Suspended particulate	City of East Chicago B.A.P.C. and U.S.D.H.E.W., P.H.S.	3/4	55	3/10	55	1	24 hr.	1-3/mo.	21		E- 1 S-12 (T- 2)	3 4
			3/10	55	3/17	55	2						
			3/17	55	3/24	55	3						
			3/24	55	12/21	55	4						
			12/21	55	12/29	55	2						
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	(Continued)												

STATE: INDIANA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Lake													
East Chicago	Suspended particulate (Continued)												
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Whiting-Hammond Area	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
Marion													
Indianapolis	Dustfall	City of Indianapolis B.A.P.C.	5/-	54	4/-	55	6	30 days	1/mo.	14	21	I- 1	24

Notes: INDIANA

1. Sampling was done in residential and industrial sections.

2. Some months were skipped.

3. Acetone extraction was used before July 1, 1955.

4. Sampling continued after April 1955.

STATE: IOWA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lee													
Keokuk	Dustfall	Keokuk Electric Co.	1/-	48	12/-	55	12 - 13	30 days	12/yr.	14	21	K- 1	1

Notes: IOWA

1. Data is primarily for the industrial part of the city.

STATE: KENTUCKY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jefferson													
Louisville	Aldehydes	B.M.I.	11/-	52	10/-	53	1 rov'g	½ hr.	0-11/day	5	2	(Y- 1)	5
	Chlorides	B.M.I.	11/-	52	10/-	53	1 rov'g	½ hr.	0-11/day	5	13	(Y- 1)	5
	Dustfall	B.M.I.	9/-	52	7/-	53	12 - 20	30 days	1/mo.	14		(Y- 1)	
	Total wt. Ash										21		
	Al, Ca, Fe, Mg, Na, Si										24		
	Dustfall	Jefferson C.A.P.C.D.	7/-	53	12/-	53	18	30 days	1/mo.	14	21	J- 1 (A- 4)	
	Hydrocarbons	B.M.I.	7/-	52	12/-	52	1 rov'g	1-5 hr.	0-11/day	19	40	(Y- 1)	1
	Oxidant	B.M.I.	11/-	52	10/-	53	1 rov'g	½ hr.	0-11/day	5	56	(Y- 1)	
	Sulfur dioxide	A.H.F.A., Inc.	1/6 3/8 6/21	37 37 37	1/7 3/9 6/22	37 37 37	1 rov'g	10 min.	35/day	25	70	(C-11)	
		B.M.I.	11/-	52	10/-	53	1 - 3	Cont.	Cont.	52	69	(Y- 1)	
		B.M.I.	12/-	52	10/-	53	1 rov'g	1 min.	0-30/day	5	69	(Y- 1)	5

STATE: KENTUCKY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jefferson													
Louisville	Suspended particulate	U. of Louisville I.I.R.	12/-	49	8/-	50	10	12-24 hr.	1/day (varied)	23		(C- 3)	6
	Total wt.										86		
	Al_2O_3, CaO, Fe_2O_3, MgO, SiO_2										88		
	Suspended particulate	B.M.I.	8/-	52	12/-	52	1 rov'g	NR	1/day (varied)	21		(Y- 1)	2
	Organics										97		
	Suspended particulate	B.M.I.	9/-	52	10/-	53	1 rov'g	½ hr.	0-11/day	35		(Y- 1)	5
	Total wt.										86		
	Particle size										99 101		
	Al, Ca, Fe, Mg, Na, Si										90		

STATE: KENTUCKY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jefferson													
Louisville	Suspended particulate	B.M.I.	9/-	52	10/-	53	1 rov'g	Inst.	Varied	3		(Y- 1)	5
	Particle count										98		
	Suspended particulate	B.M.I.	9/-	52	10/-	53	1 rov'g	Varied	Varied	24		(Y- 1)	3
	Total wt.										86		
	Al, Ca, Fe, Mg, Si										90		
	Suspended particulate	Jefferson C.A.P.C.D.	8/-	53	2/-	54	1	1 hr.	24/day	47		J- 1 (A- 4)	
	Soiling										105		
	Suspended particulate	Jefferson C.A.P.C.D., The Kettering Lab., and U.S.D.H.E.W., P.H.S.	3/31 4/8 5/25	54 54 54	4/8 5/25 6/2	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		J- 1 S-12 (C-12)	8
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	(Continued)												

STATE: KENTUCKY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Jefferson													
Louisville	Suspended particulate (Continued)												
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	Jefferson C.A.P.C.D. and U.S.D.H.E.W., P.H.S.	6/8	54	7/8	54	1	24 hr.	1-4/mo.	21		J-1	4
			7/8	54	10/28	55	2					S-12	7
			10/28	55	11/5	55	1					(C-12)	8
	Total wt.										86		
	Chlorides										80		
	(Continued)												

STATE: KENTUCKY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jefferson Louisville	Suspended particulate (Continued)												
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: KENTUCKY

1. Aldehydes, ketones, acids, alcohols, chlorinated material, hydrochloric acid, and hydrogen sulfide were detected.

2. Hydroxylamine, C-H bonds, ester type carbonyls, aldehyde and ketone carbonyls, polystyrene and calcium nitrate were detected.

3. Analyses were made of the material at each stage.

4. Acetone extraction was used before July 1, 1955.

5. Sampling was done intermittently during the time period stated.

6. A few samples were analyzed spectrographically.

7. Sampling continued after December 31, 1955.

8. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: LOUISIANA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Orleans													
New Orleans	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 3
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	1 3
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	1 3
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		

STATE: LOUISIANA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Orleans													
New Orleans	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	1
	Soiling										106		
	Suspended particulate	Louisiana State D.H.; The Kettering Lab.; and U.S.D.H.E.W., P.H.S.	5/25	54	6/3	54	2	24 hr.	1/wk.	21		L- 5 S-12	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: LOUISIANA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Orleans													
New Orleans	Suspended particulate	Louisiana State D.H. and U.S.D.H.E.W., P.H.S.	6/11 5/7	54 55	5/7 5/20	55 55	2 1	24 hr.	1-3/mo.	21		L- 5 S-12	2 4 5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: LOUISIANA

1. Results of air analyses were shown as averages for five cities.

2. Acetone extraction was used before July 1, 1955.

3. Sampling was done intermittently during the time period stated.

4. Sampling continued after December 31, 1955.

5. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: MARYLAND

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
(No County)													
Baltimore	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 2
	Dustfall	City of Baltimore H.D.	3/-	26	10/-	28	9	30 days	12/yr.	14		(S- 1)	
	Total wt. Ash										21		
	Silica										23		
	Tar										21		
	Hydrogen sulfide	City of Baltimore H.D.	3/-	55	12/31	55	2	2 hr.	12/day	48	44	B- 2	3
	Sulfur dioxide	A.H.F.A., Inc.	9/19 2/19 5/17	36 37 37	9/21 2/20 5/22	36 37 37	1 rov'g @ 40 sites	10 min.	25/day	27	70	(C-11)	
		City of Baltimore H.D.	5/-	54	12/31	55	1 - 3	Cont.	Cont.	51	72	B- 2 (A- 5)	3 4

STATE: MARYLAND

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
(No County)													
Baltimore	Suspended particulate	U.S.D.T.,P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	1 2
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T.,P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	1
	Soiling										106		
	Suspended particulate	U.S.D.T.,P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	1 2
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Siliça										88		
	Sulfur										88		

STATE: MARYLAND

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES				NUMBER OF STATIONS	SAMPLING SCHEDULE		APPENDIX A		APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
			FROM		TO			LENGTH OF EACH SAMPLING PERIOD	FREQUENCY SAMPLES WERE TAKEN	SAMPLING EQUIPMENT	ANALYTICAL METHODS		
			MONTH AND DAY	YEAR	MONTH AND DAY	YEAR							
(No County)													
Baltimore	Suspended particulate	City of Baltimore H.D.	10/27	53	12/31	55	NR	2 hr.	12/day	47		B- 2	3
	Soiling										105		

Notes: MARYLAND

1. Results of air analyses were shown as averages for five cities.

2. Sampling was done intermittently during the time period stated.

3. Sampling continued after December 31, 1955.

4. Samples were collected in industrial areas.

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Berkshire													
Pittsfield	Dustfall	Massachusetts D.P.H.	6/-	55	12/31	55	5	30 days	1/mo.	14		M- 1	3
	Total wt.										21		
	Solubles												
	Insolubles												
	Organics										26		
	Sulfates										34		
	Suspended particulate	Massachusetts D.P.H.	6/-	55	12/31	55	2	24 hr.	1/mo.	23		M- 1	3
	Total wt.										86		
	Organics										93		
	Sulfates										107		
Essex													
Andover	Dustfall	Massachusetts D.P.H.	10/-	54	12/31	55	1	30 days	12/yr.	14		M- 1	3
	Total wt.										21		
	Solubles												
	Insolubles												
	(Continued)												

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Essex													
Andover	Dustfall (Continued)												
	pH										NR		
	Sulfates										34		
Lawrence	Dustfall	Massachusetts D.P.H.	10/-	54	12/31	55	2	30 days	1/mo.	14		M- 1	3
	Total wt. Solubles Insolubles										21		
	pH										NR		
	Sulfates										34		
Marblehead	Dustfall	Massachusetts D.P.H.	6/-	55	12/31	55	3	30 days	1/mo.	14		M- 1	3
	Total wt. Solubles Insolubles										21		
	pH										NR		
	Sulfates										34		

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Essex													
Salem	Dustfall	Massachusetts D.P.H.	6/-	55	12/31	55	1	30 days	1/mo.	14		M- 1	3
	Total wt.										21		
	Solubles												
	Insolubles												
	pH										NR		
	Sulfates										34		
Hampden													
Chicopee	Dustfall	Massachusetts D.L.I.	3/-	49	6/-	49	1	30 days	1/mo.	14		(M- 1)	
	Total wt.										21		
	Solubles												
	Insolubles												
	Carbon												
	Ash												
	Sulfates										23		
	Tar										21		

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Hampden													
Holyoke	Dustfall	Massachusetts D.L.I.	2/-	49	6/-	49	15	30 days	1/mo.	14		(M- 1)	
	Total wt.										21		
	Solubles												
	Insolubles												
	Carbon												
	Ash												
	Sulfates										23		
	Tar										21		
Hampshire													
Amherst	Dustfall	Massachusetts D.L.I.	2/-	49	6/-	49	1	30 days	1/mo.	14		(M- 1)	
	Total wt.										21		
	Solubles												
	Insolubles												
	Carbon												
	Ash												
	Sulfates										23		
	Tar										21		

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Middlesex													
Everett	Dustfall	Massachusetts D.P.H.	11/-	54	12/31	55	1	30 days	12/yr.	14		M- 1	3
	Total wt.										21		
	Solubles												
	Insolubles												
	pH										NR		
	Sulfates										34		
Suffolk													
Boston	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 4
	Dustfall	Massachusetts D.P.H.	11/-	54	12/31	55	1	30 days	12/yr.	14		M- 1	3
	Total wt.										21		
	Solubles												
	Insolubles												
	pH										NR		
	Sulfates										34		

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Suffolk													
Boston	Suspended particulate	Harvard School of Public Health	12/-	27	2/-	29	1	Inst.	2/day	4		(D- 1)	
	Particle count										98		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	1 4
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	1
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	1 4
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	(Continued)												

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Suffolk													
Boston	Suspended particulate (Continued)												
	Silica										88		
	Sulfur										88		
	Suspended particulate	Massachusetts D.P.H. and U.S.D.H.E.W., P.H.S.	1/4	55	1/10	55	1	24 hr.	1-4/mo.	21		M- 1	2
			1/10	55	1/18	55	2					S-12	3
			1/18	55	12/21	55	3					(T- 2)	
			12/21	55	12/28	55	2						
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: MASSACHUSETTS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Suffolk Boston	Suspended particulate (Continued) Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: MASSACHUSETTS

1. Results of air analyses were shown as averages for five cities.

2. Acetone extraction was used before July 1, 1955.

3. Sampling continued after December 31, 1955.

4. Sampling was done intermittently during the time period stated.

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
St. Clair													
St. Clair and Marine City Area	Sulfur dioxide	Michigan State D.H.	4/15	53	5/15	53	3	Cont.	Cont.	52	69	M- 2 (B- 2)	5
	Suspended particulate	Michigan State D.H.	4/15	53	5/15	53	8	30 min.	2/day	25		M- 2 (B- 2)	
	Particle count										98		
	Suspended particulate	Michigan State D.H.	4/15	53	5/15	53	8	24 hr.	1/day	22		M- 2 (B- 2)	
	Total wt.										86		
	Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Si, Sn, Ti, V, W, Zn										90		
Washtenaw													
Ann Arbor	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Carbon monoxide	General Motors Corporation	9/-	52	10/-	52	NR	NR	NR	10 43	9 8	(C- 4)	
	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	6 10
	Dustfall	City of Detroit B.S.I.A.	NR	50	12/31	55	20	30 days	12/yr.	13	21	D- 2	9
	Oxidant	City of Detroit D.H.	1/2	53	11/20	53	1	10 min.	1/day	27	54	D- 1	
		U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g @ 126 sites	10 min.	20/day	27	70	(C-11)	7
		City of Detroit B.I.H. & B.S.I.A.	9/-	50	6/-	53	1 rov'g @ 35 sites	Cont.	Cont.	52	69	D- 1	5
		City of Detroit B.I.H. & B.S.I.A.	2/-	51	3/-	55	1	Cont.	Cont.	52	69	D- 1	5

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Sulfur dioxide	I.J.C.T.A.B.	3/-	51	12/-	52	2 rov'g @ 11 sites	Cont.	Cont.	52	69	(R- 4) (R- 6)	3 5
		I.J.C.T.A.B.	6/-	53	12/-	53	1-2	Cont.	Cont.	52	69	(R- 6)	3 5
		I.J.C.T.A.B.	7/-	53	8/-	53	1-2	40 min.	1/hr.	28	69	(R- 6)	3 10
		City of Detroit B.I.H. & B.S.I.A.	7/-	53	12/-	55	2	Cont.	Cont.	52	69	D- 1	1 5
		U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	6 10
	Particle count										98		
	Particle size										101		

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	6 10
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	I.J.C.T.A.B.	5/7	51	6/17	51	31	24 hr.	1/day	21		(R- 4)	2 3
	Total wt.										86		
	Chlorides										81		
	Fluorides										83		
	Sulfates										107		
	(Continued)												

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Suspended particulate (Continued)												
	Al, Ba, Bi, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Si, Sn, Ti, V, Zn										90		
	Suspended particulate	I.J.C.T.A.B.	NR	52	NR	52	NR	35 min.	Varied	37		(R- 5)	11
	Particle size										100		
	Suspended particulate	I.J.C.T.A.B.	NR	52	NR	52	NR	35 min.	Varied	25		(R- 5)	11
	Particle size										101		
	Suspended particulate	I.J.C.T.A.B.	1/10	52	3/20	52	30 (varied)	10 min.	Varied	26		(R- 5)	10
	Particle count										98		

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Suspended particulate	I.J.C.T.A.B.	5/15	52	8/27	52	2	4 min.	120/day	32		(R- 5)	
	Soiling										106		
	Suspended particulate	I.J.C.T.A.B.	8/7	52	9/19	52	9	24 hr.	1/day	21		(R- 5)	3
	Total wt.										86		
	Al, Ba, Be, Bi, Co, Cr, Cu, Fe, Ir, Mg, Mn, Mo, Ni, Pb, Sb, Si, Sn, Ti, V, W, Zn										90		
	Suspended particulate	City of Detroit B.I.H. & B.S.I.A.	1/8	53	2/20	53	1	24 hr.	1/day	23	86	D- 1	
	Suspended particulate	City of Detroit B.I.H. & B.S.I.A.	5/4	53	6/12	53	4	8-16 hr.	2/day	23		D- 1	
	Total wt.										86		
	Lead										89		

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Suspended particulate	City of Detroit B.I.A. & B.I.S.A.	7/-	53	12/-	55	4	24 hr.	1/day	23	86	D- 1	1
	Suspended particulate	I.J.C.T.A.B.	7/-	53	12/-	53	4	24 hr.	1/day	21		(R- 6)	4
	Total wt.										86		
	Al, Ba, Be, Bi, Co, Cr, Cu, Fe, Ir, Mg, Mn, Mo, Ni, Pb, Sb, Si, Sn, Ti, V, W, Zn										90		
	Suspended particulate	City of Detroit B.S.I.A.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	11/4	53	3/17	54	2	24 hr.	1/wk. (varied)	21		D- 2	12
			3/17	54	4/22	54	3					S-12	
			4/22	54	6/10	54	1					(C-12)	
	Total wt.										86	(C-13)	
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	(Continued)												

STATE: MICHIGAN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Wayne													
Detroit	Suspended particulate (Continued)												
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
Grand Rapids	Suspended particulate (Gypsum dust)	A.S.M.E. Committee on A.P.C.	NR	NR	NR	NR	6	2 days	6/day	27		A- 4	8
	Total wt.										86		
	Particle count										98		

Notes: MICHIGAN

1. Results were also used by the International Joint Commission Air Pollution Study.

2. Fluorides, sulfates and chlorides were determined on 25 percent of samples only.

3. Work was done with the cooperation of the City of Detroit, Bureau of Industrial Hygiene and Bureau of Smoke Inspection and Abatement.

4. Five samples per month at each of four stations were given spectrographic analyses.

5. Thirty-minute integrations were made during sampling period.

6. Results of air analyses were shown as averages for four cities.

7. Sampling was a seven-day-week, twenty-four-hour day urban area coverage.

8. Results were not available August 16, 1955.

9. Sampling continued after December 31, 1955.

10. Sampling was done intermittently during the time period stated.

11. Sampling was done over a period of twelve days in 1952, the dates of which are not recorded.

12. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: MINNESOTA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hennepin													
Hopkins	Dustfall	Minnesota State D.H.	1/-	51	12/-	51	8	30 days	1/mo.	14		M- 3	1
	Total wt. Insolubles										21		
Minneapolis	Suspended particulate	Minnesota State D.H., The Kettering Lab., and U.S.D.H.E.W., P.H.S.	2/9 4/13 6/3	54 54 54	4/13 6/3 6/9	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		M- 3 S-12 (C-12) (C-13)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates (Continued)										107		

STATE: MINNESOTA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hennepin													
Minneapolis	Suspended particulate (Continued)												
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	Minnesota State D.H. and U.S.D.H.E.W., P.H.S.	10/20	54	12/21	55	1	24 hr.	1-4/mo.	21		M- 3 S-12 (C-12) (C-13)	3 4
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates (Continued)										107		

STATE: MINNESOTA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Hennepin													
Minneapolis	Suspended particulate (Continued)												
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn,										90		
Ramsey													
St. Paul	Dustfall	City of St. Paul D.P.U.	NR	48	12/31	55	13	4 mo.	3/yr.	14		S- 5	2 4
	Total wt. Combustible Noncombustible										21		

Notes: MINNESOTA

1. Some samples were analyzed for bituminous and carbonaceous content.

2. Samples were collected in residential and industrial sections of the city.

3. Acetone extraction was used before July 1, 1955.

4. Sampling continued after December 31, 1955.

STATE: MISSOURI

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
(No County)													
St. Louis	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	3 5
	Dustfall	Union Electric Co. of Missouri	NR	NR	NR	NR	Varied	Varied	Varied	8		(M- 5)	
	Total wt.										21		
	Soiling										33		
	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g ● 56 sites	10 min.	20/day	27	70	(C-11)	
		City of St. Louis D.P.Wel.	2/23 5/5	50 50	3/31 7/29	50 50	9-14	10 min.	14/day	25	70	S- 6 (S- 4)	2
		City of St. Louis D.P.Wel.	7/-	50	6/-	51	1	Cont.	Cont.	52	69	S- 6	1
		U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	

STATE: MISSOURI

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
(No County)													
St. Louis	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	3 5
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	3
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	3 5
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		

STATE: MISSOURI

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
(No County)													
St. Louis	Suspended particulate	City of St. Louis D.S.R.	4/1	53	12/31	55	1	3 hr.	4/day	47		S-11	6
	Soiling										105		
Jackson													
Kansas City	Suspended particulate	Kansas City H.D.; The Kettering Lab; and U.S.D.H.E.W., P.H.S.	2/18	54	3/2	54	1	24 hr.	1/wk. (varied)	21		K- 3 S-12 (C-12)	
			3/2	54	5/4	54	2						
			5/4	54	6/2	54	1						
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates (Continued)										107		

STATE: MISSOURI

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jackson													
Kansas City	Suspended particulate (Continued)												
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	Kansas City H.D. and U.S.D.H.E.W., P.H.S.	4/19	55	9/7	55	1	24 hr.	1-2/mo.	21		K- 3 S-12 (C-12)	4 6
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: MISSOURI

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jackson Kansas City	Suspended particulate (Continued) Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: MISSOURI

1. The daily average amount of sulfur dioxide was correlated with deaths from cardiac and pulmonary diseases for one year.

2. One sample per day was taken at each station.

3. Results of air analyses were shown as averages for five cities.

4. Acetone extraction was used before July 1, 1955.

5. Sampling was done intermittently during the time period stated.

6. Sampling continued after December 31, 1955.

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Camden													
Camden	Sulfur dioxide	A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g @ 81 sites	10 min.	20/day	27	70	(C-11)	2
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/28	55	4/6	55	1	24 hr.	1/wk.	21		N- 4 S-12	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Camden													
Camden	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/13	55	9/29	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		
	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	4/21	55	12/2	55	1	24 hr.	1-3/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Gloucester													
Paulsboro	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/28	55	4/6	55	1	24 hr.	1/wk.	21		N- 4 S-12	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/13	55	8/28	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Gloucester													
Paulsboro	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	4/21	55	12/2	55	1	24 hr.	1-3/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hudson													
Jersey City	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/28	55	4/6	55	1	24 hr.	1/wk.	21		N- 4 S-12 (T- 2)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/13	55	8/28	55	1	24 hr.	1/wk.	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Hudson													
Jersey City	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	4/29	55	12/18	55	1	24 hr.	1-2/mo.	21		N- 4 S-12 (T- 2)	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Mercer													
Trenton	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/29	55	11/24	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		
	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	5/7	55	12/18	55	1	24 hr.	1-3/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Middlesex													
Perth Amboy	Dustfall	W. G. Christy Consulting Engr.	3/-	55	5/-	55	2-3	30 days	1/mo.	14		C-15 (C-14)	
	Total wt.										21		
	Solubles												
	Insolubles												
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/8	55	4/6	55	1	24 hr.	1/wk.	21		N- 4 S-12	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Middlesex													
Perth Amboy	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/13	55	8/28	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		
	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W. P.H.S.	4/13	55	12/10	55	1	24 hr.	1-3/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Middlesex													
Perth Amboy	Suspended particulate (Continued)												
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Ocean													
Lakehurst	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	1/18	55	2/10	55	1	24 hr.	1/day	21		N- 4 S-12	
	Total wt.										86		
	Organics										92		
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/28	55	4/6	55	1	24 hr.	1/wk.	21		N- 4 S-12	
	Total wt.										86		
	Chlorides										80		
	(Continued)												

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Ocean													
Lakehurst	Suspended particulate (Continued)												
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/13	55	5/24	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	
	Total wt.										86		
	Organics										92		

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Ocean													
Lakehurst	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	5/15	55	12/10	55	1	24 hr.	1-2/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Union													
Elizabeth	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Union													
Elizabeth	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
	Suspended particulate	New Jersey State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	4/5	55	8/28	55	1	24 hr.	1/wk. (varied)	21		N- 4 S-12	1
	Total wt.										86		
	Organics										93		
	Suspended particulate	New Jersey State D.H. and U.S.D.H.E.W., P.H.S.	4/13	55	12/10	55	1	24 hr.	1-2/mo.	21		N- 4 S-12	1 3
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	(Continued)												

STATE: NEW JERSEY

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Union													
Elizabeth	Suspended particulate (Continued)												
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Murray Hill	Ozone	Bell Telephone Lab.	1/-	44	12/-	44	1	NR	1/day (varied)	42	58	(C- 5)	

Notes: NEW JERSEY

1. Acetone extraction was used before July 1, 1955.

2. Sampling was a seven-day week, twenty-four-hour day urban area coverage.

3. Sampling continued after December 31, 1955.

STATE: NEW MEXICO

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Bernalillo													
Albuquerque	Ozone	U. of New Mexico	NR NR	51 53	NR NR	NR NR	5 (varied)	Cont.	Cont.	33	58	(A- 2) (B- 4)	1 2

Notes: NEW MEXICO

1. Special recording instruments were developed for this purpose.

2. Sampling was done intermittently during the time period stated.

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Broome													
Binghamton	Dustfall (Flyash)	City of Binghamton B.H.	NR	49	NR	49	12	30 days	1/mo.	14	NR	B- 3	
Erie													
Buffalo	Condensation nuclei	U.S.D.T.,P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	26
	Dustfall	City of Buffalo B.S.A.	NR	55	NR	55	NR	Varied	Varied	14	NR	B- 4	
	Hydrogen sulfide	City of Buffalo B.S.A.	NR	55	NR	55	NR	Varied	Varied	NR	NR	B- 4	16
	Sulfur dioxide	City of Buffalo B.S.A.	NR	55	NR	55	NR	Varied	Varied	NR	NR	B- 4	16
	Suspended particulate	U.S.D.T.,P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	26
	Particle count										98		
	Particle size										101		

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Erie													
Buffalo	Suspended particulate	U.S.D.T., P.H.S.	6/-	32	3/-	33	1	7 hr.	1/day	25		(I- 1)	26
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	City of Buffalo B.S.A.	NR	55	NR	55	NR	Varied	Varied	47		B- 4	16
	Soiling										NR		
New York													
New York	Aldehydes	City of New York D.A.P.C.	NR	54	12/31	55	1	30 min.	1/day	25	3	N- 2	7
	Ammonia	City of New York D.A.P.C.	NR	54	NR	NR	1	30 min.	1/day	25	4	N- 2	

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Carbon monoxide	NR	7/-	22	2/-	23	1 rov'g	Inst.	Varied	20 38 39	11	(H- 4)	
		U.S.D.I., B.M.	8/15	32	9/6	32	Varied	Cont.	Cont.	9	9	(Y- 2)	4
		City of New York D.A.P.C.	NR	54	12/31	55	1 - 5	5-15 min.	1/day	41	8	N- 2	7
	Chlorides	City of New York D.A.P.C.	NR	55	NR	NR	1	70 min.	1/day	25	NR	N- 2	
	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	2 6
	Dustfall	City of New York D.A.P.C.	1/-	36	12/-	36	99	30 days	12/yr.	14		N- 1	
	Total wt. Carbon Ash Solubles Insolubles										21		
	Ammonium										16		
	(Continued)												

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
New York													
New York	Dustfall (Continued)												
	Chlorides										20		
	Sulfates										34		
	Tar										21		
	Dustfall	City of New York D.H.	9/-	44	12/-	54	12-27	30 days	12/yr.	14		N- 2 (G- 2)	8
	Total wt. Solubles Insolubles										21		
	Dustfall	City of New York D.A.P.C.	NR	54	12/31	55	12-27	30 days	12/yr.	14		N- 2	7
	Total wt. Solubles Insolubles Soluble ash Insoluble ash										21		
	Acidity as CO_2 Acidity as SO_2 (Continued)										23		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Dustfall (Continued)												
	Ammonium										16		
	Chlorides										19		
	Nitrates										25		
	Phosphates										31		
	Radioactivity										32		
	Sulfates										34		
	Tar										27		
	pH										28		
	Na, Ca										29		
	Hydrogen sulfide										24		
		City of New York D.A.P.C.	NR	54	NR	NR	1	30 min.	1/day	25	43	N- 2	

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
New York													
New York	Nitrogen dioxide	City of New York D.A.P.C.	NR	54	NR	NR	1	30 min.	1/day	5	46	N- 2	
	Oxidant	City of New York D.A.P.C.	NR	54	12/31	55	1	30 min.	1/day	25	53 57	N- 2	7
	Sulfides	City of New York D.A.P.C.	NR	54	NR	NR	1	NR	1/day	25	63	N- 2	
	Sulfur dioxide	City of New York D.A.P.C.	NR	53	12/31	55	1	30 min.	2/day	25	67	N- 2	7
		City of New York D.A.P.C.	7/-	53	12/31	55	2 fixed and 1 rov'g	40 min.	24/day (varied)	28	67	N- 2 (G- 1)	7
		City of New York D.A.P.C.	7/-	53	12/31	55	1	30 min.	2/day	25	67	N- 2 (G- 1)	7
		City of New York D.A.P.C.	NR	54	12/31	55	1 - 2	40 min.	1/hr.	28	67	N- 2	7
		City of New York D.A.P.C.	NR	55	12/31	55	1 - 2	Cont.	Cont.	11	69	N- 2	7

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate	City of New York D.H.	1/-	28	12/-	28	1	Inst.	1/day	4		(F- 1)	
	Particle count										98		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	26
	Particle count										98		
	Particle size										101		
	Suspended particulate	City of New York Meteorological Observatory	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	2
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	26
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	(Continued)												

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate (Continued)												
	Silica										88		
	Sulfur										88		
	Suspended particulate	U.S.D.I., B.M.	4/15 2/5	32 33	6/3 2/18	32 33	8 (varied)	Varied	Varied	16		(Y- 2)	4
	Total wt. Carbon Ash										86		
	Organics										93		
	Al, As, Ca, Fe, Mg, Pb, S, Si										88		
	Ag, Al, Ba, Be, Bi, Ca, Co, Cr, Cu, Fe, Ga, Ge, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Si, Sr, Ti, V, Zn										90		

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate	U.S.D.I., B.M.	4/15 2/5	32 33	6/3 2/18	32 33	8 (varied)	Varied	Varied	4		(Y- 2)	4
	Particle size										100		
	Suspended particulate	NR	11/16	53	11/22	53	1	6 hr.	4/day	47		(H- 3)	
	Soiling										105		
	Suspended particulate	City of New York D.A.P.C.	NR	54	12/31	55	1 - 2	1 hr.	NR	23		N- 2	7
	Copper										82		
	Radioactivity										103		
	Zinc										108		
	Suspended particulate	City of New York D.A.P.C.	NR	54	12/31	55	1	7 min.	1/day	16		N- 2	7 9
	Particle count										98		

STATE: NEW YORK

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate	City of New York D.A.P.C.	NR	54	12/31	55	1 - 2	1 hr.	NR	23		N- 2	7
	Ash										86		
	Lead										89		
	Tar										94		
	Suspended particulate	City of New York D.A.P.C.	NR	54	12/31	55	Several	2 hr.	12/day	47 54		N- 2	7
	Soiling										105		
	Suspended particulate	City of New York D.A.P.C.; The Kettering Lab.; and U.S.D.H.E.W., P.H.S.	1/14 2/4 5/28	54 54 54	2/4 5/28 12/3	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		N- 2 S-12 (C-12) (C-13)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates (Continued)										91		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate (Continued)												
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate	City of New York D.A.P.C. and U.S.D.H.E.W., P.H.S.	11/22	54	3/16	55	1	24 hr.	1-4/mo.	21		N- 2	5
			3/16	55	12/28	55	2					S-12	7
	Total wt.										86	(C-12) (C-13)	
	Chlorides										80		
	Nitrates										91		
	Organics (Continued)										93		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
New York													
New York	Suspended particulate (Continued)												
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Westchester													
Yonkers	Sulfur dioxide	B.T.I.P.R., Inc.	11/-	36	10/-	38	1	Cont.	Cont.	52	69	(S- 5) (S- 6)	3

Notes: NEW YORK

1. Sampler was operated twenty-four hours for specific complaints and three hours for spot checks.

2. Results of air analyses were shown as averages for five cities.

3. Samples were also taken in greenhouses. Some measurements were made using iodine titration.

4. In addition to the carbon monoxide and particulate matter in the air of the Holland Tunnel, studies were made of their dissemination into the surrounding atmosphere.

5. Acetone extraction was used before July 1, 1955.

6. Sampling was done intermittently during the time period stated.

7. Sampling continued after December 31, 1955.

8. Sampling continued after December 1954.

9. Microprojection techniques were used for analysis.

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Cuyahoga													
Cleveland	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 9
	Dustfall	City of Cleveland D.S.I.	6/-	27	5/-	29	10	30 days	12/yr.	14		(G- 3)	
	Total wt.										21		
	Carbon Ash												
	Iron oxide										23		
	Dustfall	City of Cleveland Div.A.P.C.	NR	46	12/31	55	23-25	30 days	12/yr.	14		C-12	8 10
	Total wt.										21		
	Carbon Ash												
	Iron oxide										23		
	Sulfates										23		
	Fluorides	City of Cleveland Div.A.P.C.	NR	49	NR	49	4	1 hr.	8/day	25	38	(D- 2) (D- 3)	2 11

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cuyahoga													
Cleveland	Sulfur dioxide	A.H.F.A., Inc.	10/20 12/8 4/29	36 36 37	10/21 12/9 5/1	36 36 37	1 rov'g @ 50 sites	10 min.	25/day	5	70	(C-11)	
		City of Cleveland Div.A.P.C.	NR	49	NR	49	4	1 hr.	8/day	25	71	(D- 2) (D- 3)	2 11
		City of Cleveland Div.A.P.C.	11/-	51	NR	NR	8	NR	1/mo.	29	69	(S- 9)	5
		City of Cleveland Div.A.P.C.	NR	52	12/31	55	1	20 min.	1/hr.	29	69	C-12	7 10
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	1 9
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	1
	Soiling										106		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Cuyahoga													
Cleveland	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	1 9
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	City of Cleveland Div.A.P.C.	NR	49	NR	49	1 rov'g	3 min.	2/day	46		(D- 2) (D- 3)	2 11
	Soiling										104		
	Suspended particulate	City of Cleveland Div.A.P.C.	NR	52	12/31	55	1	20 min.	1/hr.	49		C-12	6 10
	Soiling										104		
	Suspended particulate	City of Cleveland Div.A.P.C.	11/-	52	NR	NR	8	NR	NR	49		S- 9	5
	Soiling										104		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Franklin													
Columbus	Dustfall	City of Columbus Div.S.R.I.	NR	NR	12/31	55	NR	30 days	12/yr.	14	21	C- 7	10
	Suspended particulate	City of Columbus Div.S.R.I.	3/10	54	3/31	54	1	NR	NR	47		(H- 3)	
	Soiling										105		
Hamilton													
Cincinnati	Acid gases	U. of Cincinnati, The Kettering Lab.	1/-	55	3/-	55	4	40 min.	24/day	28	1	C-10	
		U. of Cincinnati, The Kettering Lab.	10/-	55	12/-	55	4	40 min.	24/day	28	1	C-10	
	Aldehydes	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 10-20 sites	30-60 min.	60-100 per mo.	25	2	(C- 8)	
	Carbon dioxide	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	Inst.	60-100 per mo.	20	5	(C- 6)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Cincinnati	Carbon monoxide	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	2-20 min.	60-100 per mo.	41	8	(C- 6)	
		U. of Cincinnati, The Kettering Lab.	10/21	55	12/22	55	1	Varied	3/day (varied)	41	8	(C- 8)	
	Dustfall	City of Cincinnati B.A.P.C.H.I.	NR	30	12/31	55	24	30 days	12/yr.	14	21	C- 8	3 10
	Dustfall	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	4	30 days	12/yr.	14		(C- 6) (C- 7)	
	Total wt. Insolubles Combustibles										21		
	Ag, Al, Cu, Fe, Mn, Pb, Si, Sn, Ti, V, Zn										23 24		
	Dustfall	City of Cincinnati B.A.P.C.H.I.	1/-	53	12/-	53	1	24 hr.	1/day	6	21	C- 8	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Cincinnati	Fluorides	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	1 hr.	60-100 per mo.	25	37	(C- 6)	
	Nitrogen dioxide	U. of Cincinnati, The Kettering Lab.	10/21	55	12/22	55	1	Varied	Varied	29	49	(C- 8)	
	Nitrogen oxides	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	Inst.	60-100 per mo.	20	50	(C- 6)	
	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
		U. of Cincinnati, The Kettering Lab.	10/21	55	12/22	55	1	Cont.	Cont.	33	55	(C- 8)	
	Sulfur dioxide	A.H.F.A., Inc.	1/4 3/10 6/23	37 37 37	1/5 3/11 6/25	37 37 37	1 rov'g @ 55 sites	10 min.	30/day	5	70	(C-11)	
		U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	30-60 min.	60-100 per mo.	25	65	(C- 6)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Cincinnati	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
		U. of Cincinnati, The Kettering Lab.	10/21	55	12/22	55	1	NR	1 every 2 hr.	29	69	(C- 8)	
	Suspended particulate	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	30-60 min.	60-100 per mo.	36		(C- 6) (C- 7)	
	Particle count										98		
	Particle size										101		
	Suspended particulate	U. of Cincinnati, The Kettering Lab.	11/-	46	10/-	51	1 rov'g @ 12-20 sites	30-60 min.	60-100 per mo.	36		(C- 6) (C- 7)	
	Total wt.										86		
	Chlorides										88		
	Fluorides										88		
	Sulfates										88		
	(Continued)												

STATE: OHIO

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Hamilton													
Cincinnati	Suspended particulate (Continued)												
	Ag, Al, As, Be, Ca, Cd, Cu, Fe, Hg, K, Mg, Mn, Na, Pb, Sb, Sn, Ti, V, Zn										90		
	Suspended particulate	City of Cincinnati B.A.P.C.H.I.	3/-	52	12/31	55	1-6	6 hr.	4/day	47		C- 8	10
	Soiling										104		
	Suspended particulate	U. of Cincinnati The Kettering Lab.	1/-	55	3/-	55	34	2 hr.	12/day	47		C-10	
	Soiling										105		
	Suspended particulate	U. of Cincinnati The Kettering Lab	10/-	55	12/-	55	34	2 hr.	12/day	47		C-10	
	Soiling										105		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Cincinnati	Suspended particulate	City of Cincinnati B.A.P.C.H.I.; The Kettering Lab. and U.S.D.H.E.W., P.H.S	2/16	54	2/23	54	1	24 hr.	1/wk. (varied)	21		C- 8 S-12 (C-12) (C-13)	
			2/23	54	3/8	54	3						
			3/8	54	4/1	54	5						
			4/1	54	4/28	54	4						
			4/28	54	6/17	54	5						
			6/17	54	2/24	55	2						
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lorain													
Lorain	Hydrogen sulfide	City of Lorain Sewage Treatment Plant	7/-	55	11/-	55	1	1 hr.	24/day	48	44	L- 3	
Mahoning													
Youngstown	Dustfall	City of Youngstown D.P.W., D.E.	NR	50	NR	55	9	30 days	12/yr.	14	21	Y- 1	
	Suspended particulate	City of Youngstown D.P.W., D.E.	NR	50	12/31	55	1 rov'g @ 15 sites	4 hr.	1/day	36	86	Y- 1	4 10
Summit													
Akron	Dustfall	City of Akron D.S.R. and D.P.H.	10/-	51	12/31	55	12	30 days	12/yr.	14		A- 5	10
	Total wt. Combustibles										21		
	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	

Notes: OHIO

1. Results of air analyses were shown as averages for five cities.

2. Effects of the steel industry strike were evaluated.

3. Four jars were analyzed monthly.

4. One electrostatic precipitator was rotated among 15 sampling stations. Sampling schedule was completed every three months.

5. Hydrogen sulfide and fluorides were sampled initially then abandoned. Standard P.H.S. impingers were used initially.

6. This is a monitoring program with the sampler being located at the Division of Air Pollution Control Laboratories. An Aseco automatic filter sampler is used.

7. An Aseco automatic impinger sampler is used. This is a monitoring program with the sampler being located at Division Laboratories. Data show a sharp decrease after 1953 due to the relocation of the Division from the downtown area to a residential area.

8. Averages of data include all jars, 30% in residential areas, balance in industrial and commercial locations.

9. Sampling was done intermittently during the time period stated.

10. Sampling continued after December 31, 1955.

11. Sampling was done in the fall of 1949.

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Baker													
Baker	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr.	14	22 22	0- 2 (F- 3)	
Benton													
Corvallis	Dustfall Total wt. Solubles Insolubles Soluble volatiles (Continued)	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr	14	22	0- 2 (F- 3)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Benton													
Corvallis	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Clackamas													
Oregon City	Dustfall	Oregon A.P.A.	10/-	52	12/31	55	1-4	2 mo.	6/yr.	14		0- 2 (S-12)	7
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles (Continued)												

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Clackamas													
Oregon City	Dustfall (Continued)												
	Insoluble nonvolatiles										22		
	Sodium chloride										22		
	Sulfur dioxide	Oregon A.P.A.	4/-	54	4/-	54	1 rov'g @ 3 sites	Cont.	Cont.	52	69	0- 2 (S-12)	
Oswego	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	8	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles (Continued)										22		

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Clackamas													
Oswego	Dustfall (Continued)												
	Sodium chloride										22		
	Suspended particulate	Oregon A.P.A.	4/29	54	5/20	54	3	24 hr. (varied)	1/day	23		(F- 3)	1
			10/-	54	10/-	54				36		(S-12)	
			3/-	55	3/-	55						(S-13)	
	Total wt.										86		
	Calcium oxide										79		
West Linn	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2	
												(F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles (Continued)												

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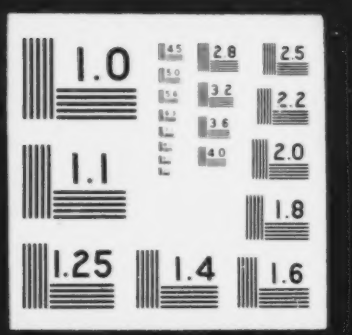

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Clackamas													
West Linn	Dustfall (Continued)												
	Sodium chloride										22		
Clatsop													
Astoria	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Clatsop													
Seaside	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Columbia													
St. Helens	Dustfall	Oregon A.P.A.	10/-	52	12/31	55	1-3	2 mo.	6/yr.	14		0- 2 (S-12)	7
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Columbia													
St. Helens	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insolubles nonvolatiles												
	Sodium chloride										22		
Coos													
Coos Bay	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14		0- 2	7
	Total wt.		10/-	53	12/31	55	1					(S-12)	
	Solubles										22	(S-13)	
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Coos													
Coos Bay	Dustfall (Continued)												
	Soluble nonvolatiles										22		
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	2
	Total wt.											(S-12)	7
	Solubles										21	(S-13)	
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Coos													
Coos Bay	Dustfall (Continued) Sodium chloride										NR		
Coquille	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride	Oregon A.P.A.	10/- 10/-	52 53	10/- 12/31	53 55	3 1	2 mo.	6/yr.	14	22 22	0- 2 (S-12) (S-13)	7
Eastside	Dustfall Total wt. (Continued)	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14	21	0- 2 (S-12) (S-13)	2 7

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Coos													
Eastside	Dustfall (Continued) Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles										21		
	Sodium chloride										NR		
Empire	Dustfall Total wt. Solubles Insolubles Soluble volatile Insoluble volatile (Continued)	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14	21	0- 2 (S-12) (S-13)	2 7

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Coos													
Empire	Dustfall (Continued)												
	Soluble nonvolatiles										21		
	Insoluble nonvolatiles												
	Sodium chloride										NR		
Northbend	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	6	2 mo.	6/yr.	14		0- 2	7
			10/-	53	12/31	55	2					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Crook													
Prineville	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Deschutes													
Bend	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14		0- 2 (S-12)	7
			10/-	53	12/31	55	1				22	(S-13)	
	Total wt.												
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Deschutes													
Bend	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Douglas													
Myrtle Creek	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	2
	Total wt.										21	(S-12) (S-13)	7
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Douglas													
Myrtle Creek	Dustfall (Continued)												
	Insoluble nonvolatiles										21		
	Sodium chloride										NR		
Oakland	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	2
	Total wt.										21	(S-12) (S-13)	7
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										NR		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Douglas													
Sutherlin	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	2
	Total wt.											(S-12)	7
	Solubles										21	(S-13)	
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										NR		
Roseburg	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr.	14		0- 2	7
			10/-	53	12/31	55	1					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Douglas													
Roseburg	Dustfall (Continued)												
	Soluble nonvolatiles										22		
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2 (S-12)	2 7
	Total wt.										21	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										NR		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hood River													
Hood River	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	NR	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Jackson													
Ashland	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A *SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Jackson													
Ashland	Dustfall (Continued) Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride										22 22		
Central Point	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles (Continued)	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14	21	0- 2 (S-12) (S-13)	2 7

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Jackson													
Central Point	Dustfall (Continued)												
	Sodium chloride										NR		
Medford	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	5	2 mo.	6/yr.	14		0- 2 (S-12)	7
	Total wt.		10/-	53	12/31	55	1				22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Suspended particulate	Oregon A.P.A.	8/-	55	9/-	55	2	24 hr.	1/day	21		0- 2 (S-13)	3
	(Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Jackson													
Medford	Suspended particulate (Continued)												
	Total wt.										86		
	Organics										92		
Josephine													
Grants Pass	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14		0- 2	7
			10/-	53	12/31	55	1					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Josephine													
Kerby	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	2
	Total wt.											(S-12)	7
	Solubles										21	(S-13)	
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										NR		
Klamath													
Klamath Falls	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	5	2 mo.	6/yr.	14		0- 2	7
			10/-	53	12/31	55	1					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Klamath													
Klamath Falls	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Suspended particulate	Oregon A.P.A.	8/-	55	9/-	55	1	24 hr.	1/day	21		0- 2 (S-13)	
	Total wt.										86		
	Organics										92		
Lane													
Eugene	Dustfall	Oregon A.P.A.	10/-	52	12/31	55	2-17	30 days	1/mo.	14		0- 2 (F- 3) (S-12)	7
	Total wt. Solubles (Continued)										22		

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lane													
Eugene	Dustfall (Continued)												
	Insolubles										22		
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	2	2 mo.	6/yr.	14		0- 2 (S-12)	2
	Total wt.										21	(S-13)	7
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lane													
Eugene	Dustfall (Continued)												
	Soluble nonvolatiles										21		
	Insoluble nonvolatiles												
	Sodium chloride										NR		
	Suspended particulate	Oregon A.P.A.	8/25 11/30	55 55	9/15 12/18	55 55	1 1	24 hr.	1/day	23		0- 2 (S-13)	
	Total wt.										86		
	Organics										93		
Springfield	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lane													
Springfield	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Lincoln													
Newport	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	1	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles (Continued)												

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lincoln													
Newport	Dustfall (Continued)												
	Insoluble nonvolatiles										22		
	Sodium chloride										22		
Toledo	Dustfall	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14		0- 2	7
	Total wt.										21	(S-12) (S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										NR		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Linn													
Albany	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14	22 22	O- 2 (F- 3)	
Sweet Home	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles (Continued)	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo.	6/yr.	14	21	O- 2 (S-12) (S-13)	7

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Linn													
Sweet Home	Dustfall (Continued)												
	Soluble nonvolatiles										21		
	Insoluble nonvolatiles												
	Sodium chloride										NR		
Malheur													
Nyssa	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2	
			10/-	53	12/31	55	1					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Malheur													
Nyssa	Dustfall (Continued) Sodium chloride										22		
Ontario	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr.	14	22	0- 2 (F- 3)	
	Sodium chloride										22		
Multonah													
Fairview	Dustfall (Continued)	Oregon A.P.A.	10/-	52	10/-	53	1	2 mo.	6/yr.	14		0- 2 (F- 3)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Fairview	Dustfall (Continued)												
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Milwaukie	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	7	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Milwaukie	Dustfall (Continued) Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride										22 22		
Portland	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles (Continued)	Oregon A.P.A.	10/- 10/-	52 53	10/- 12/31	53 55	27 4 (varied)	2 mo.	6/yr.	14	22	0- 2 (S-12)	4 7

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Portland	Dustfall (Continued)												
	Sodium chloride										22		
	Fluorides	Oregon A.P.A.	7/- 4/-	54 55	12/- 4/-	54 55	1-3	8 hr.	0-3/day	25 28 29	38	0- 2 (S-12)	
	Oxidant	Oregon A.P.A.	11/-	54	2/-	55	1	2 hr.	Varied	25	57	0- 2 (S-12)	
	Sulfur dioxide	Oregon A.P.A.	9/- 5/-	53 54	3/- 7/-	54 54	1 rov'g @ 3 sites	Cont.	Cont.	52	69	0- 2 (S-12)	
	Suspended particulate	Oregon A.P.A.	7/-	53	12/-	55	2-6	24 hr.	Varied	21		0- 2 (S-12) (S-13)	
	Total wt.										86		
	Organics										96		
	Al, Ba, Be, Ca, Cd, Co, Cr, Cu, (Continued)										87		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Portland	Suspended particulate (Continued)												
	Fe, Mg, Mn, Mo, Na, Pb, Sb, Ti, V, W, Zn										87		
	Suspended particulate	Oregon State Bd.H.	2/-	54	3/25	54	1	24 hr.	1/day	21		0- 2	
		The Kettering Lab,	3/25	54	4/30	54	2		(varied)			S-12	
		and U.S.D.H.E.W.,	4/30	54	10/26	54	3					(C-12)	
		P.H.S.	10/26	54	11/5	54	5					(C-13)	
	Total wt.										86	(T- 3)	
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	(Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Portland	Suspended particulate (Continued)												
	Sulfates										107		
	Ag,As,Be,Cu, Fe,K,Mg,Mn,Na, Pb,Sn,Sr,Ti,V										90		
	Suspended particulate	Oregon State Bd.H. and U.S.D.H.E.W., P.H.S.	1/6	55	10/13	55	1	24 hr.	1-7/mo.	21		0-2 S-12 (C-12) (C-13) (T-3)	6 7
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates (Continued)										107		

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Multonah													
Portland	Suspended particulate (Continued)												
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Sauvie Island	Fluorides	Oregon A.P.A.	7/-	53	4/-	55	1-4	Varied	0-4/day	25 28 29	38	0- 2 (F- 3) (S-13)	5 8
	Suspended particulate	State College of Washington, Div. I.R.	2/10	52	2/16	52	1	1 hr.	24/day	49		W- 1	
	Fluorides										84		
	Soiling										104		
Troutdale	Fluorides	Oregon A.P.A.	7/-	53	4/-	55	3-4	Varied	0-4/day	25 28 29	38	0- 2 (F- 3) (S-13)	5

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Polk													
Salem	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	5	2 mo.	6/yr.	14		0- 2 (S-12)	7
	Total wt.		10/-	53	12/31	55	1				22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
	Sulfur dioxide	Oregon A.P.A.	6/-	54	6/-	54	1 rov'g @ 3 sites	Cont.	Cont.	52	69	0- 2 (S-12)	

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Tillamook													
Forest Grove	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2	7
	Total wt.		10/-	53	12/31	55					22	(S-12)	
	Solubles											(S-13)	
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Tillamook	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2mo.	6/yr.	14		0- 2	
	Total wt.											(F- 3)	
	Solubles										22		
	Insolubles												
	Soluble volatiles												
	(Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Tillamook													
Tillamook	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Umatilla													
Pendleton	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	5	2 mo.	6/yr.	14		0- 2	7
			10/-	53	12/31	55	1					(S-12)	
	Total wt.										22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles (Continued)												

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COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Umatilla Pendleton	Dustfall (Continued) Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride										22 22		
	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles (Continued)	Oregon A.P.A.	4/-	54	12/31	55	1	2 mo	6/yr.	14	21	0- 2 (S-12) (S-13)	2 7

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Umatilla													
Pendleton	Dustfall (Continued)												
	Sodium chloride										NR		
	Suspended particulate	Oregon A.P.A.	9/29	55	10/8	55	4	24 hr.	1/day	21		0- 2 (S-13)	
	Total wt.										86		
	Organics										92		
Union													
La Grande	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	3	2 mo.	6/yr.	14		0- 2 (S-12)	7
	Total wt.		10/-	53	12/31	55	1				22	(S-13)	
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	(Continued)												

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Union													
La Grande	Dustfall (Continued) Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride										22 22		
Wasco													
The Dalles	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles (Continued)	Oregon A.P.A.	10/-	52	10/-	53	4	2 mo.	6/yr.	14	22	0- 2 (F- 3)	

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Wasco													
The Dalles	Dustfall (Continued)												
	Sodium chloride										22		
Washington													
Hillsboro	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles										22		
	Sodium chloride										22		

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Yamhill													
McMinnville	Dustfall Total wt. Solubles Insolubles Soluble volatiles Insoluble volatiles Soluble nonvolatiles Insoluble nonvolatiles Sodium chloride	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14	22 22	0- 2 (F- 3)	
Newberg	Dustfall Total wt. Solubles Insolubles Soluble volatiles (Continued)	Oregon A.P.A.	10/-	52	10/-	53	2	2 mo.	6/yr.	14	22	0- 2 (F- 3)	

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Yamhill													
Newberg	Dustfall (Continued)												
	Insoluble volatiles										22		
	Soluble nonvolatiles												
	Insoluble nonvolatiles												
	Sodium chloride										22		
Sheridan	Dustfall	Oregon A.P.A.	10/-	52	10/-	53	1	2 mo.	6/yr.	14		0- 2 (F- 3)	
	Total wt.										22		
	Solubles												
	Insolubles												
	Soluble volatiles												
	Insoluble volatiles												
	Soluble nonvolatiles (Continued)												

STATE: OREGON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Yamhill Sheridan	Dustfall (Continued) Insoluble nonvolatiles										22		
	Sodium chloride										22		

Notes: OREGON

1. Samples were taken in the vicinity of a cement plant.

2. The study was done in the vicinity of woodwaste industries.

3. A total of twelve samples were collected in residential and industrial areas.

4. Ten additional stations were set up at times.

5. Samples were taken in the vicinity of an aluminum reduction plant.

6. Acetone extraction was used before July 1, 1955.

7. Sampling continued after December 31, 1955.

8. Sampling was done intermittently during the time period stated.

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Allegheny													
Pittsburgh	Carbon monoxide	City of Pittsburgh B.S.P.	NR	38	12/31	55	1-3	1-3 min.	Varied	43	8	P- 2 (R- 7) (R- 8)	5 7
	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	1 6
	Dustfall	Mellon Institute of Industrial Research	NR	12	NR	14	12	30 days	12/yr.	14		(S-10)	
	Total wt.										21		
	Carbon Ash												
	Iron oxide										23		
	Tar										21		

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Allegheny													
Pittsburgh	Dustfall	Mellon Institute of Industrial Research	8/1	23	6/30	24	12	30 days	1/mo.	14		(M- 6)	3
	Total wt. Solubles Insolubles Combustibles Ash										21		
	Ammonium										23		
	Chlorides										23		
	Iron oxide										23		
	Sulfates										23		
	Tar										21		
	Dustfall	City of Pittsburgh B.S.P.	NR	38	12/31	55	6-12	30 days	12/yr.	14		P- 2 (R- 7)	5
	Total wt. Carbon Ash										21	(R- 8)	
	Al_2O_3, As_2O_3, CaO, Cr_2O_3, (Continued)										24		

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Allegheny													
Pittsburgh	Dustfall (Continued)												
	Fe_2O_3, MgO, MnO, PbO, SiO_2, ZnO										24		
	Hydrogen sulfide	I.H.F.A., Inc.	9/-	54	12/31	55	1	2 hr.	12/day	48	44	I- 3 (H- 3)	5
	Sulfur dioxide	U.S.D.I., B.M.	8/11	27	8/11	28	1	Inst.	1/day	20	71	(M- 2)	
		Pittsburgh Testing Lab.	7/-	31	6/-	32	1	15 sec.	2/day	20	71	(B- 3)	
		Mellon Institute of Industrial Research	1/-	32	12/-	32	1	10 min.	1-3/day	5	40	(S- 7)	
		A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g @ 125 sites	10 min.	20/day	5	70	(C-11)	2

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Allegheny													
Pittsburgh	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	16
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	4/-	33	1	4 min.	80/day	32		(I- 1)	1
	Soiling										106		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	16
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Allegheny													
Pittsburgh	Suspended particulate	I.H.F.A., Inc.	1/-	53	12/31	55	1	2 hr.	12/day	47		I- 3 (H- 3)	5
	Soiling										105		
Bucks													
Bristol	Suspended particulate	Pennsylvania D.H. and U.S.D.H.E.W., P.H.S.	4/22	55	12/28	55	1	24 hr.	1-4/mo.	21		P- 4 S-12	4 5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Bucks													
Bristol	Suspended particulate (Continued)												
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Delaware													
Chester	Suspended particulate	Pennsylvania D.H. and U.S.D.H.E.W., P.H.S.	4/29	55	12/27	55	1	24 hr.	1-4/mo.	21		P- 4 S-12	4 5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity (Continued)										103		

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Delaware													
Chester	Suspended particulate (Continued)												
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Lycoming													
Williamsport	Suspended particulate	Pennsylvania D.H. and U.S.D.H.E.W., P.H.S.	11/7	55	12/10	55	1	24 hr.	2-3/mo.	21		P- 4 S-12	4 5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	(Continued)												

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Lycoming													
Williamsport	Suspended particulate (Continued)												
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Philadelphia													
Philadelphia	Condensation nuclei	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3/day	2	15	(I- 1)	16
	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	A.H.F.A., Inc.	10/12	36	10/15	37	1 rov'g @ 125 sites	10 min.	20/day	5	70	(C-11)	

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Philadelphia													
Philadelphia	Sulfur dioxide	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	Inst.	3-6/day	4		(I- 1)	16
	Particle count										98		
	Particle size										101		
	Suspended particulate	U.S.D.T., P.H.S.	6/-	31	3/-	33	1	7 hr.	1/day	25		(I- 1)	16
	Total wt. Carbon Ash										86		
	Iron oxide										88		
	Silica										88		
	Sulfur										88		
	Suspended particulate	City of Philadelphia D.P.H.	11/-	54	12/31	55	5	24 hr.	Varied	23	86	P- 3	5

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Philadelphia													
Philadelphia	Suspended particulate	City of Philadelphia D.P.H.; The Kettering Lab., and U.S.D.H.E.W., P.H.S.	1/12 1/19 4/22	54 54 54	1/19 4/22 5/12	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		P- 3 S-12 (C-12) (C-13) (T- 3)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Philadelphia													
Philadelphia	Suspended particulate	City of Philadelphia D.P.H. and U.S.D.H.E.W., P.H.S.	1/4	55	12/29	55	1	24 hr.	8/mo.	21		P- 3 S-12 (C-12) (C-13) (T- 3)	4 5 8
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Washington													
Donora	Carbon monoxide	U.S.D.T., P.H.S.	2/9	49	4/27	49	12	NR	Varied	43	8	(S- 8)	6

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Washington													
Donora	Chlorides	U.S.D.T., P.H.S.	4/11	49	4/27	49	12	1 hr.	18/day	25	12	(S- 8)	
	Chlorine	U.S.D.T., P.H.S.	2/9	49	4/27	49	12	NR	Varied	26	14	(S- 8)	6
	Fluorides	U.S.D.T., P.H.S.	4/11	49	4/27	49	12	1 hr.	18/day	25	36	(S- 8)	
	Hydrogen sulfide	U.S.D.T., P.H.S.	2/9	49	4/27	49	12	NR	Varied	44	42	(S- 8)	6
	Nitrogen oxides	U.S.D.T., P.H.S.	2/9	49	4/27	49	12	Inst.	Varied	20	50	(S- 8)	6
	Sulfur	U.S.D.T., P.H.S.	2/16	49	4/27	49	12	1 hr.	4/day	25	64	(S- 8)	
	Sulfur dioxide	U.S.D.T., P.H.S.	2/16	49	4/27	49	12	1 hr.	4/day	25	71	(S- 8)	
		U.S.D.T., P.H.S.	2/16	49	4/27	49	1 rov'g @ 5 sites	Cont.	Cont.	52	69	(S- 8)	

STATE: PENNSYLVANIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Washington													
Donora	Suspended particulate	U.S.D.T., P.H.S.	2/16	49	4/27	49	12	2 hr.	3/day	36		(S- 8)	
	Total wt.										86		
	Cadmium										78		
	Lead										89		
	Zinc										108		
Washington	Suspended particulate	U.S.D.T., P.H.S.	11/16	53	11/22	53	NR	6 hr.	4/day	47		(H- 3)	
	Soiling										105		

Notes: PENNSYLVANIA

1. Results of air analyses were shown as averages for five cities.

2. Sampling was a seven-day week, twenty-four-hour day urban area coverage.

3. Investigation was conducted to determine improvement effected since the 1912-13 study.

4. Acetone extraction was used before July 1, 1955.

5. Sampling continued after December 31, 1955.

6. Sampling was done intermittently during the time period stated.

7. Samples were taken on busy street corners.

8. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Sbriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: TENNESSEE

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Davidson													
Nashville	Dustfall	City of Nashville Div. S.R.	NR	37	NR	39	NR	30 days	12/yr.	14		N- 3	
	Total wt. Solubles Insolubles										21		
Hamilton													
Chattanooga	Dustfall	City of Chattanooga B.A.P.C.B.I.	12/-	37	12/-	54	4 (varied)	30 days	12/yr.	14		C- 9	
	Total wt. Combustibles Noncombustible										21		
	Dustfall	U. of Chattanooga Industrial Research Institute	8/-	51	8/-	52	25-50	30 days	12/yr.	14		S- 7	
	Total wt. Combustibles Noncombustible										21		
	Metallic ions										24		

STATE: TENNESSEE

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Chattanooga	Suspended particulate	U. of Chattanooga Industrial Research Institute	8/-	51	8/-	52	25-50	6 hr.	4/day	47		S- 7	
	Soiling										104		
	Suspended particulate	Tennessee D.P.H., D.I.H.S.	1/-	52	2/-	52	1	½-1½ hr.	Varied	35		T- 1	2
	Manganese										86		
	Suspended particulate	U. of Chattanooga Industrial Research Institute	1/-	52	8/-	52	NR	24 hr.	1/day	36		S- 7	3
	Total wt. Combustibles Noncombustible										86		
	Metallic ions										90		
	Suspended particulate	City of Chattanooga B.A.P.C.B.I.	4/-	53	7/-	55	25	1-2 hr.	Varied	35	86	C- 9	

STATE: TENNESSEE

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Chattanooga	Suspended particulate	City of Chattanooga B.A.P.C.B.I.	4/-	53	7/-	55	25	1-2 hr.	Varied	23	86	C- 9	
	Suspended particulate	City of Chattanooga B.A.P.C.B.I. and U.S.D.H.E.W., P.H.S.	2/8	55	12/9	55	2	24 hr.	1-3/mo.	21		C- 9 S-12 (T- 2)	1 4 5
			12/9	55	12/22	55	1						
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: TENNESSEE

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Hamilton													
Knoxville	Dustfall	City of Knoxville B.S.R.B.I.	NR	46	NR	50	24	30 days (varied)	1/mo. (varied)	14		K- 2	
	Total wt. Combustibles Noncombustible										21		
Maury													
Mt. Pleasant	Hydrogen fluoride	Victor Chemical Co.	1/-	45	12/31	55	Varied	Varied	Varied	36 5	41	V- 1	4

Notes: TENNESSEE

1. Acetone extraction was used before July 1, 1955.

2. Samples were collected near an electrometallurgical plant.

3. A large volume electrostatic precipitator was used.

4. Sampling continued after December 31, 1955.

5. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B: AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Dallas													
Dallas	Suspended particulate	City of Dallas H.D.	5/-	55	12/31	55	NR rov'g	24 hr.	Varied	23		D- 3 T- 2	2
	Total wt.										86		
	Metallic ions										90		
	Suspanded particulate	City of Dallas H.D.	5/-	55	12/31	55	NR rov'g	NR	NR	36	86	D- 3 T- 2	2
El Paso													
El Paso	Dustfall	El Paso C.C.H.U.	12/13	52	4/3	53	25	30 days	1/mo.	14	21	E- 2	
Harris													
Bellaire	Suspended particulate	City of Houston H.D. and U.S.D.H.E.W., P.H.S.	7/13	54	6/22	55	1	24 hr.	2-4/mo.	21		H- 2 S-12	1
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	(Continued)												

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Harris													
Bellaire	Suspended particulate (Continued)												
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		
Houston	Suspended particulate	City of Houston H.D.; The Kettering Lab. and U.S.D.H.E.W.,	1/28 2/10 6/2 6/8	54 54 54 54	2/10 6/2 6/8 6/30	54 54 54 54	1 2 1 2	24 hr.	1/wk. (varied)	21		H- 2 S-12 (C-12) (C-13)	
	Total wt.										86	(T- 2) (T- 3)	
	Chlorides (Continued)										80		

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Harris													
Houston	Suspended particulate (Continued)												
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Tl, V										90		
	Suspended particulate	City of Houston H.D.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	11/1	55	11/18	55	1	24 hr.	1/wk. (varied)	21		H- 2 S-12 (C-12) (C-13) (T- 3)	
	Total wt.										87		
	Organics										93		

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Harris													
Houston	Suspended particulate	City of Houston H.D. and U.S.D.H.E.W.,	8/18	54	2/3	55	1	24 hr.	1-4/mo.	21		H- 2	1
			2/3	55	11/18	55	2					S-12	2
			11/18	55	12/28	55	1					(C-12)	3
	Total wt.										86	(C-13) (T- 2)	
	Chlorides										80	(T- 3)	
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Tarrant													
Fort Worth	Suspended particulate	City of Fort Worth D.H.W.; The Kettering Lab.and U.S.D.H.E.W., P.H.S.	2/2 2/23	54 54	2/23 5/28	54 54	1 2	24 hr.	1/wk. (varied)	21		F- 3 S-12 (C-12) (C-13) (T- 2)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		
	Suspended particulate (Continued)	City of Fort Worth D.H.W.; The Kettering Lab; and U.S.D.H.E.W., P.H.S	6/3 6/8 7/28	54 54 54	6/8 7/28 8/20	54 54 54	1 2 1	24 hr.	1/wk. (varied)	21		F- 3 S-12 (C-12) (C-13)	

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Tarrant													
Fort Worth	Suspended particulate (Continued)												
	Total wt.										86		
	Organics										92		
	Suspended particulate	City of Fort Worth D.H.W. and U.S.D.H.E.W., P.H.S.	8/5	54	7/6	55	1	24 hr.	2/mo.	21		F- 3 S-12 (C-12) (C-13) (T- 2)	1 2
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: TEXAS

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Tarrant Fort Worth	Suspended particulate (Continued) Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: TEXAS

1. Acetone extraction was used before July 1, 1955.

2. Sampling continued after December 31, 1955.

3. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: UTAH

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Salt Lake													
Salt Lake City	Ammonia	U.S.D.I., B.M.	11/18	19	4/10	20	NR rov'g	NR	Varied	5	4	(M- 3)	4
	Carbon dioxide	U.S.D.I., B.M.	11/18	19	4/10	20	NR rov'g	½ hr.	Varied	5	6	(M- 3)	4
	Chlorides	U.S.D.I., B.M.	11/18	19	4/10	20	NR rov'g	NR	Varied	5	13	(M- 3)	4
	Dustfall	U.S.D.I., B.M.	9/1 2/8	19 21	4/30 4/29	20 21	20	30 days	1/mo.	14		(M- 3)	
	Total wt. Combustibles										21		
	Nitrous acid	U.S.D.I., B.M.	11/18	19	1/2	20	NR rov'g	NR	Varied	5	52	(M- 3)	4
	Sulfates	U.S.D.I., B.M.	11/18	19	4/10	20	NR rov'g	NR	Varied	5	62	(M- 3)	4
	Sulfur dioxide	The Agricultural College of Utah	6/-	03	NR	03	Varied	NR	NR	NR	NR	(W- 2)	
		U.S.D.I., B.M.	11/18 2/17	19 21	3/31 3/15	20 21	NR rov'g	Inst.	Varied	20	71	(M- 3)	
		U.S.D.I., B.M.	12/-	19	3/-	20	NR	NR	NR	NR	NR	(P- 1)	2

STATE: UTAH

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Salt Lake													
Salt Lake City	Suspended particulate	The Agricultural College of Utah	6/-	03	NR	03	Varied	NR	NR	NR		(W- 2)	1
	As, Cu, Fe,										88		
	Suspended particulate	U.S.D.I., B.M.	11/18 2/8	19 21	4/10 4/29	20 21	NR rov'g	6 hr.	Varied	18	86	(M- 3)	
	Suspended particulate	Salt Lake City Bd.H.; Utah D.P.H. and U.S.D.H.E.W., P.H.S.	2/6	51	3/16	51	1	15 min.	1-7/day	23		S- 8 (R- 3)	
	Soiling										104		
	Suspended particulate	Salt Lake City Bd.H.; Utah D.P.H. and U.S.D.H.E.W., P.H.S.	2/6	51	3/16	51	1	1 hr.	1-6/day	36		S- 8 (R- 3)	
	Total wt.										86		
	Organics										93		
	Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, Mg, Mn, Mo, Ni, Pb, Sb, Si, Sn, Ti, V, Zn										90		

STATE: UTAH

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Salt Lake													
Salt Lake City	Suspended particulate	Utah D.H.; The Kettering Lab.and U.S.D.H.E.W.,	2/10	54	2/25	54	1	24 hr.	1/wk. (varied)	21		S-12 U- 2 (C-12) (C-13)	
			6/7	54	6/16	54	1						
			6/16	54	6/29	54	2						
			6/29	54	7/1	54	1						
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: UTAH

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Salt Lake													
Salt Lake City	Suspended particulate	Utah D.H.; The Kettering Lab.; and U.S.D.H.E.W., P.H.S.	7/9	54	11/30	54	1	24 hr.	1/wk. (varied)	21		S-12 U- 2 (C-12) (C-13)	
	Total wt.										86		
	Organics										92		
	Suspended particulate	Utah D.H. and U.S.D.H.E.W., P.H.S.	8/10	54	7/28	55	1	24 hr.	1-3/mo.	21		S-12 U- 2 (C-12) (C-13)	3 5
	Total wt.										86		
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	(Continued)												

STATE: UTAH

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Salt Lake Salt Lake City	Suspended particulate (Continued) Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

Notes: UTAH

1. Specially designed collectors were used.

2. Samples were taken at 3,000 feet in an airplane and on the ground in residential and industrial areas to determine the part played by smelter gases in polluting the air. Grab flasks were used in sampling from the airplane.

3. Acetone extraction was used before July 1, 1955.

4. Sampling was done intermittently during the time period stated.

STATE: VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Henrico													
Portsmouth	Sulfur dioxide	U.S. Navy, Norfolk Navy Yard	11/-	26	9/-	27	1	15 sec.	5/mo.	20	70	(Q- 1)	
Richmond	Sulfur dioxide	A.H.F.A., Inc.	2/3 5/24	37 37	2/5 5/25	37 37	1 rov'g @ 56 sites	10 min.	35/day	27	70	(C-11)	
Roanoke													
Roanoke	Suspended particulate Soiling	City of Roanoke D.A.P.C.	10/-	54	12/31	55	1	2 hr.	12/day	47	104	R- 1	1

Notes: VIRGINIA

1. Sampling continued after December 31, 1955.

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Chelan													
Wenatchee	Fluorides	State College of Washington, Div. I.R.	NR	51	12/31	55	50	Cont.	1/mo.	17	NR	W- 5	11 12
Clark													
Camas and Washougal Vicinity	Sulfur dioxide	State College of Washington, Div. I.R.	7/17	53	7/25	53	1 fixed and 1 rov'g	Cont.	Cont.	51	72	W- 1	
Cowlitz													
Kelso	Hydrogen fluoride	State College of Washington, Div. I.R.	10/1	52	10/31	52	Varied	4 hr.	6/day	5	41	W- 1	
	Sulfur dioxide	State College of Washington, Div. I.R.	10/1	52	10/31	52	Varied	Cont.	Cont.	51	72	W- 1	
Longview	Dustfall	U. of Washington D.P.H.P.M	9/30	53	10/7	54	16	30 days	12/yr.	14 12		L- 4	6
	Total wt.										21		
	Calcium										17		
	(Continued)												

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Cowlitz													
Longview	Dustfall (Continued)												
	Sodium										24		
	Sulfates										34		
	Dustfall	U. of Washington D.P.H.P.M.	6/7	54	7/13	54	23	30 days	1/mo.	14		L- 4	7
	Total wt.										21		
	Calcium										17		
	Sodium										24		
	Sulfates										34		
	Hydrogen fluoride	State College of Washington, Div. I.R.	10/1	52	10/31	52	Varied	4 hr.	6/day	5	41	W- 1	
	Sulfur dioxide	State College of Washington, Div. I.R.	10/1	52	10/31	52	Varied	Cont.	Cont.	51	72	W- 1	

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Grant													
Quincy	Suspended particulate	State College of Washington, Div. I.R.	6/19	52	6/20	52	20	10 min.	3-4/day	26		W- 1	
			2/19	54	3/9	54							
	Particle count										98		
King													
Seattle	Carbon monoxide	U. of Washington	2/-	52	2/-	52	4	Inst.	4/day	10	9	W- 2 (T- 1)	1
	Dustfall	U. of Washington	7/-	50	9/-	50	16	30 days	1/mo.	14	21	W- 2	3
	Dustfall	U. of Washington	9/-	50	2/-	52	27	3 mo.	4/yr.	14		W- 2 (T- 1)	
	Total wt. Solubles Insolubles										21		
	Chlorides										18		
	Sulfates										35		
	Dustfall	U. of Washington	11/23	51	3/21	52	3	6 mo.	2/yr.	14		W- 2 (T- 1)	2
	Total wt. Combustibles										21		

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
King													
Seattle	Dustfall	City of Seattle E.D.	7/-	54	12/31	55	9	30 days	12/yr.	14	21	S-10	11
	Fluorides	State College of Washington	NR	51	12/31	55	9	30 days	12/yr.	17	NR	W- 4	11
		U. of Washington	11/-	51	11/-	51	1 rov'g @ 65 sites	30 min.	5/day	25	36	W- 2 (T- 1)	1
	Lead	U. of Washington	2/-	52	2/-	52	4	15 min.	4/day	27	45	W- 2 (T- 1)	
	Sulfur dioxide	U. of Washington	6/-	51	9/-	51	1 rov'g @ 27 sites	Cont.	Cont.	52	69	W- 2 (T- 1)	1
		U. of Washington	2/-	52	2/-	52	4	30 min.	1/day	25	NR	W- 2 (T- 1)	1
	Sulfuric acid	U. of Washington	2/-	52	2/-	52	4	1 hr.	1/day	27	77	W- 2 (T- 1)	
	Suspended particulate	U. of Washington	7/-	50	8/-	50	1	24 hr.	1/day	16		W- 2	3
	Soiling										104		

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
King													
Seattle	Suspended particulate	U. of Washington	7/27 8/13	50 50	7/28 9/7	50 50	1	24 hr.	1/day	16		W- 2	3
	Radioactivity										103		
	Suspended particulate	U. of Washington	2/-	51	1/-	52	4	24 hr.	1/day	16		W- 2 (T- 1)	1 10
	Soiling										104		
	Suspended particulate	U. of Washington	6/-	51	9/-	51	1 rov'g @ 27 sites	1 hr.	6/day	35	86	W- 2 (T- 1)	1
	Suspended particulate	U. of Washington	6/-	51	9/-	51	1 rov'g @ 27 sites	Inst.	10/day	3		W- 2 (T- 1)	1
	Particle count										98		
	Suspended particulate	U. of Washington	6/-	51	9/-	51	1 rov'g @ 27 sites	1 hr.	6/day	16		W- 2 (T- 1)	1
	Total wt.										86		
	Soiling										104		

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES: SEE LAST PAGE OF THIS STATE
Pierce													
Tacoma	Dustfall	City of Tacoma A.P.C.Sec.	7/-	54	12/31	55	10	2 mo.	6/yr.	14	21	T- 3 (H- 5)	5 11
	Dustfall	City of Tacoma D.P.W.	7/1	54	9/10	54	10	30 days	1/mo	14		(A- 3)	
	Total wt.										21		
	Solubles												
	Insolubles												
	Chlorides										NR		
	Sodium										NR		
	Sulfates										NR		
	Fluorides	State College of Washington	NR	51	12/31	55	5	30 days	12/yr.	17	NR	W- 5	11
	Hydrogen fluoride	State College of Washington	10/- 5/- 8/-	51 52 52	10/- 5/- 8/-	51 52 52	3	4 hr.	6/day	5	41	W- 1	
	Sulfur dioxide	State College of Washington	10/- 5/- 8/-	51 52 52	10/- 5/- 8/-	51 52 52	1	Cont.	Cont.	52	69	W- 1	

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Pierce													
Tacoma	Suspended particulate	U. of Washington D.S.E.	4/-	48	9/-	48	7	Varied	Varied	26		W- 3	4
	Particle count										98		
	Suspended particulate	City of Tacoma A.P.C.Sec.	8/-	54	12/31	55	2	2 hr.	12/day	47		T- 3 (H- 5)	5 11
	Soiling										104		
	Suspended particulate	City of Tacoma D.P.W.	9/-	54	NR	NR	NR	Varied	Varied	47		(A- 3)	
	Soiling										105		
Spokane													
Mead	Fluorides	State College of Washington	6/-	55	12/31	55	5	Varied	Varied	17	38	W- 1	8 11
Spokane	Dustfall	U. of Washington and City of Spokane H.D.	3/26	55	12/31	55	4	30 days	1/mo.	14	21	S- 9 W- 2	11

STATE: WASHINGTON

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Spokane													
Spokane	Hydrogen fluoride	State College of Washington	9/-	49	10/-	49	1 rov'g	Varied	Varied	5	41	W- 1 (A- 1)	
		State College of Washington	5/-	50	10/-	50	12	Varied	Varied	5	41	W- 1 (A- 1)	
Stevens													
Northport	Fluorides	State College of Washington	9/-	55	12/31	55	9	30 days	1/mo.	17	38	W- 1	11
	Sulfur dioxide	U.S.D.I., B.M.	11/-	29	8/-	40	2-3	Cont.	Cont.	52	69	(D- 4)	
		U.S.D.I., B.M.	8/-	38	8/-	39	Many rov'g	1-10 min.	Varied	5	69	(D- 4)	9

Notes: WASHINGTON

1. Residential and industrial areas were studied.

2. This was a complaint type of investigation involving lumbermills.

3. Lake Washington Ship Canal area only.

4. This was a smoke study with recommendations for control.

5. Smoke and visibility data were also collected.

6. An extensive stack sampling and fuel survey was carried out.

7. The study evaluated the local pollution from a paper mill.

8. The sampling period was for one month during the growing season and for two months during the remainder of the year.

9. Samples were taken from an airplane.

10. A few samples were examined by an electron microscope. Microphotographs were made and compared with those of known materials.

11. Sampling continued after December 31, 1955.

12. Fluoride analyses on tree foliage were also made.

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Kanawha													
Belle	Dustfall	West Virginia State D.H.	1/-	46	12/-	47	1	30 days	12/yr.	14		(H- 6)	
	Total wt. Combustibles										21		
	Particle size										30		
Charleston	Aldehydes	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	25	3	(A- 7)	2
	Ammonia	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	25	4	(A- 7)	2
	Chlorides	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	25	13	(A- 7)	2
	Dustfall	West Virginia State D.H.	6/-	45	12/-	47	4-10	1 wk. or 1 mo.	1/wk. or 1/mo.	14		(H- 6)	
	Total wt. Combustibles										21		
	Particle size										30		

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Kanawha													
Charleston	Dustfall	West Virginia State D.H.	2/-	50	6/-	51	28	30 days	12/yr.	14		(A- 7)	1
	Total wt.										21		
	Ash										24		
	Al,As,Ba,Be, Bi,Ca,Cd,Co, Cr,Cu,Fe,Hg, Mg,Mn,Mo,Ni, Pb,Sb,Si,Sn, Ti,V,W,Zn												
	Fluorides	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	25	37	(A- 7)	2
	Hydrogen sulfide	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	5	43	(A- 7)	2
	Nitrogen oxides	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	Inst.	Varied	20	50	(A- 7)	2

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Kanawha													
Charleston	Oxidant	U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	Cont.	Cont.	33	55	(C- 9) (F- 2)	
	Sulfur dioxide	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min. (varied)	Varied	25	74	(A- 7)	2
		U. of Cincinnati, The Kettering Lab.	7/10	53	7/10	54	1	NR	NR	29	70	(C- 9) (F- 2)	
	Suspended particulate	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	30 min.	1/day (varied)	36		(A- 7)	2
	Total wt.										86		
	Chlorides										88		
	Fluorides										88		
	Sulfates										88		
	Ag,Al,As,Ba, Be,Bi,Ca,Cd, Co,Cr,Cu,Fe,										90		
	(Continued)												

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Kanawha													
Charleston	Suspended particulate (Continued)												
	Hg,K,Mg,Mn,Mo, Na,Ni,Pb,Sb, Si,Sn,Ti,V,W, Zn										90		
	Suspended particulate	West Virginia State D.H. and U. of Cincinnati, The Kettering Lab.	12/-	50	8/-	51	2 rov'g @ 19 sites	24 hr.	1/day (varied)	23		(A- 7)	2
	Total wt.										86		
	Chlorides										88		
	Fluorides										88		
	Sulfates										86		
	Ag,Al,As,Ba, Be,Bi,Ca,Cd, Co,Cr,Cu,Fe, Hg,K,Mg,Mn,Mo, Na,Ni,Pb,Sb, Si,Sn,Ti,V,W, Zn										90		

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Kanawha													
Charleston	Suspended particulate	West Virginia State D.H.; The Kettering Lab. and U.S.D.H.E.W., P.H.S.	3/16 4/26	54 54	4/26 6/10	54 54	1 2	24 hr.	1/wk. (varied)	21		S-12 W- 6 (C-12) (C-13)	
	Total wt.										86		
	Chlorides										80		
	Fluorides										84		
	Nitrates										91		
	Organics										92		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ag, As, Be, Cu, Fe, K, Mg, Mn, Na, Pb, Sn, Sr, Ti, V										90		

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Kanawha													
Charleston	Suspended particulate	West Virginia State D.H. and U.S.D.H.E.W., P.H.S.	1/6	55	2/9	55	1	24 hr.	1-2/mo.	21		S-12	3
			2/9	55	12/1	55	2					W- 6	4
			12/1	55	12/14	55	1					(C-12)	5
	Total wt.										86	(C-13)	
	Chlorides										80		
	Nitrates										91		
	Organics										93		
	pH										102		
	Radioactivity										103		
	Sulfates										107		
	Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V, Zn										90		

STATE: WEST VIRGINIA

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES--SEE LAST PAGE OF THIS STATE
Taylor													
Grafton	Dustfall	U.S.D.I., B.M.	4/-	22	11/-	22	9	30 days	1/mo.	14		(M- 4)	
	Total wt. Combustibles										21		

Notes: WEST VIRGINIA

1. The area from Glen Ferris to Nitro in the Kanawha River Valley was studied.

2. The area from Cabin Creek to Nitro in the Kanawha River Valley was studied.

3. Acetone extraction was used before July 1, 1955.

4. Sampling continued after December 31, 1955.

5. The organic portion was occasionally separated into water soluble, basic, strongly acidic, weakly acidic, neutral, and water-ether insoluble fraction using a modification of the method of Shriner, Fuson, and Curtin. The neutral group was further subdivided into aliphatic, aromatic and oxygenated groups by chromatography on silica gel.

STATE: WISCONSIN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE: LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE: FREQUENCY SAMPLES WERE TAKEN	APPENDIX A: SAMPLING EQUIPMENT	APPENDIX A: ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES-SEE LAST PAGE OF THIS STATE
Dane													
Madison	Carbon disulfide	City of Madison D.P.H.	11/-	36	2/-	53	Varied	NR	Varied	27	7	M- 4	
	Hydrogen sulfide	City of Madison D.P.H.	11/-	36	2/-	53	Varied	NR	Varied	27	43	M- 4	
Manitowoc													
Manitowoc	Dustfall	City of Manitowoc D.P.H.	9/-	51	11/-	52	16	30 days	12/yr.	14		M- 5	
	Total wt. Combustibles Ash										21		
	Calcium										17		
Milwaukee													
Milwaukee (and 18 other communities)	Dustfall	Milwaukee C.D.S.R.	7/-	50	12/31	55	60	30 days	12/yr.	14		M- 6	1 2
	Total wt. Combustibles Ash										21		

STATE: WISCONSIN

COUNTY AND CITY	SAMPLE CATEGORIES	ORGANIZATION	DATES FROM MONTH AND DAY	DATES FROM YEAR	DATES TO MONTH AND DAY	DATES TO YEAR	NUMBER OF STATIONS	SAMPLING SCHEDULE LENGTH OF EACH SAMPLING PERIOD	SAMPLING SCHEDULE FREQUENCY SAMPLES WERE TAKEN	APPENDIX A SAMPLING EQUIPMENT	APPENDIX A ANALYTICAL METHODS	APPENDIX B AGENCIES & REFERENCES WHERE RESULTS ARE RECORDED	NOTES - SEE LAST PAGE OF THIS STATE
Winnebago													
Oshkosh	Dustfall	City of Oshkosh H.D.	3/-	54	12/31	55	5	30 days	12/yr.	14	21	0- 3	2

Notes: WISCONSIN

1. Special studies included dustfall and stack sampling.

2. Sampling continued after December 31, 1955

APPENDIX A

I. SAMPLING EQUIPMENT

II. ANALYTICAL METHODS

I. SAMPLING EQUIPMENT

NOTE: Figures are code numbers from the column, "Sampling Equipment"

1. Absorption column
2. Counter, Aitken Nuclei
3. Counter, Bausch and Lomb
4. Counter, Owen's Jet Dust
5. Bubblers
6. Coated aluminum foil (sticky)
7. Coated glass plates (sticky)
8. Coated transparent film (sticky)
9. Carbon monoxide continuous automatic sampler
10. Carbon Monoxide Indicator (Mine Safety Appliances Company)
11. Davis Continuous Electro-Conductivity Analyzer
12. Dustfall collector, directional (Battelle Memorial Institute)
13. Dustfall collector (City of Detroit)
14. Dustfall jars
15. Even flow sampler
16. Filter paper (not specified further)
17. Filter paper (lime treated for fluorides)
18. Filter paper (thimbles)
19. Freeze-out train
20. Grab flasks
21. High volume filter (fiber glass filter)
22. High volume filter (paper filter)
23. High volume filter (filter medium not specified)
24. Impactor, Cascade
25. Impinger, Greenberg-Smith
26. Impinger, midget
27. Impinger, (other than Greenberg-Smith or midget)
28. Impinger, Wilson Automatic
29. Impinger, automatic (other than Wilson Automatic)
30. Jordan Sampler
31. Nitrogen oxide recorder (photometric)

32. Owen's Automatic Air Filter

33. Oxidant recorder (potassium iodide)

34. Oxidant recorder (ultraviolet absorption)

35. Precipitator, electrostatic (Mine Safety Appliances Company)

36. Precipitator, electrostatic (other than Mine Safety Appliances Company)

37. Precipitator, thermal

38. Rubber bladders

39. Siphon bottles

40. Snow

41. Solid adsorbent tube for carbon monoxide (Mine Safety Appliances Company)

42. Spray chambers

43. Squeeze bulb sampler for carbon monoxide (Mine Safety Appliances Company)

44. Squeeze bulb sampler for hydrogen sulfide (Mine Safety Appliances Company)

45. Squeeze bulb sampler for sulfur dioxide (Mine Safety Appliances Company)

46. Strip filter paper sampler (Bacharach Industrial Instrument Company)

47. Strip filter paper sampler (A.I.S.I.)

48. Strip filter paper sampler for hydrogen sulfide (A.I.S.I.)

49. Strip filter paper sampler (not specified further)

50. Sweepings

51. Titrilog

52. Thomas Autometer

53. Venturi-cyclonic scrubber

54. Von Brand Filtering Recorder

II. ANALYTICAL METHODS

NOTE: Figures are code numbers from the column, "Analytical Methods"

Acid gases

1. Measure change in electrical conductivity of absorbing solution

Aldehydes

2. Bisulfite addition
3. Titrimetric (iodine)

Ammonia

4. Nessler's reagent

Carbon dioxide

5. Phenolthalein method (colorimetric)
6. Pettenkofer method

Carbon disulfide

7. Diethylamine and copper salt (copper diethyldithiocarbamate)

Carbon monoxide

8. Color comparison on solid adsorbent (M.S.A. Colorimetric Carbon Monoxide Tester)
9. Hopcalite cell and meter
10. Infrared spectroscopy
11. Iodine pentoxide

Chlorides

12. Mohr titration

13. Silver nitrate (unspecified)

Chlorine

14. Orthotolidine method

Condensation nuclei

15. Aitken Nuclei Counter

Dustfall

(a) Ammonium

16. Nessler's reagent

(b) Calcium

17. Versenate titration

(c) Chlorides

18. Mohr titration

19. Silver nitrate (unspecified)

20. Volhard method

(d) General

21. Gravimetric (not specified further)

22. Los Angeles County Air Pollution Control District Method

23. Wet chemical methods (not specified further)

(e) Metallic ions

24. Spectroscopy (not specified further)

(f) Nitrates

25. Xylenol method

(g) Organics (tar, bitumen)

26. Benzene extraction

27. Chloroform extraction

(h) pH

28. Electrometric

29. Test paper

(i) Particle size or count

30. Optical microscope

(j) Phosphates

31. Molybdenum blue

(k) Radioactivity

32. Scaler

(l) Soiling

33. Stain comparison (photoelectric transmission)

(m) Sulfates

34. Barium sulfate precipitation

35. Tetrahydroxyquinone with barium chloride

Fluorides

36. Thorium-alizarin method (not specified further)

37. Willard-Winter method (not specified further)

38. Willard-Winter method modified (thorium nitrate titration and sodium alizarin sulfonate indicator)

Hydrocarbons

39. Infrared spectroscopy

40. Mass spectroscopy

Hydrogen fluoride

41. Willard-Winter method modified (thorium nitrate titration and sodium alizarin sulfonate indicator)

Hydrogen sulfide

42. Color comparison on solid adsorbent tube (M.S.A. Hydrogen Sulfide Detector)

43. p-Aminodimethylaniline sulfate method

44. Lead acetate paper (stain comparison)

Lead

45. Wet chemical analysis (not specified further)

Nitrogen dioxide

46. Griess-Ilosvay method

47. Measure acidity of absorbing solution

48. Saltzman (modification Griess-Ilosvay method)

49. Photometric

Nitrogen oxide

50. Phenoldisulfonic acid (colorimetric)

51. Rider and Mellon method (colorimetric)

Nitrous acid

52. Griess-Ilosvay method

Oxidant

53. Phenolthalin method

54. Potassium iodide (alkaline)

55. Potassium iodide (buffered)

56. Potassium iodide (neutral)

57. Potassium iodide (not specified further)

Ozone

58. Potassium iodide (not specified further)

59. Rubber cracking

60. Ultraviolet spectroscopy

Radioactivity

61. Ion chamber

Sulfates

62. Barium sulfate precipitation

Sulfides

63. p-Aminodimethylaniline sulfate method

Sulfur

64. Barium sulfate precipitation

Sulfur dioxide

65. Barium sulfate precipitation

66. Fuchsin - formaldehyde

67. Hydrogen peroxide - bromcresol green

68. Measure acidity of absorbing solution

69. Measure change in electrical conductivity of absorbing solution (Thomas Autometer and others)

70. Smith and Friis (iodometric titration)

71. Starch-iodine titration (not specified further)

72. Titration of oxidizable sulfur compounds with electrically generated bromine (Titrilog)

73. Titrimetric (sodium hydroxide)

74. Turbidimetric (barium sulfate)

Sulfur trioxide

75. Measure acidity of absorbing solution

76. Turbidimetric (barium sulfate)

Sulfuric acid

77. Wet chemical methods (not specified further)

Suspended particulate

(a) Cadmium

78. Dithizone method

(b) Calcium

79. Permanganate titration

(c) Chlorides

80. Silver nitrate (unspecified)

81. Volhard method

(d) Copper

82. Dithizone method

(e) Fluorides

83. Thorium-alizarin method (not specified further)

84. Willard-Winter method modified (thorium nitrate titration and sodium alizarin sulfonate indicator)

(f) General

85. Gravimetric (Los Angeles Air Pollution Control District Method)

86. Gravimetric (not specified further)

87. Spectroscopy (not specified further)

88. Wet chemical methods (not specified further)

(g) Lead

89. Dithizone method

(h) Metallic ions

90. Emission spectroscopy

(i) Nitrates

91. Xylenol method

(j) Organics

92. Acetone extraction

93. Benzene extraction

94. Chloroform extraction

95. Ether extraction

96. Ethyl alcohol extraction

97. Infrared spectroscopy

(k) Particle count

98. Optical microscope

(l) Particle size

99. Electron microscope

100. Optical microscope - projection

101. Optical microscope

(m) pH

102. Electrometric

(n) Radioactivity

103. Scaler

(o) Soiling

104. Stain comparison (photoelectric, reflectance)

105. Stain comparison (photoelectric, transmission)

106. Stain comparison (visual)

(p) Sulfates

107. Barium sulfate precipitation

(q) Zinc

108. Dithizone method

APPENDIX B

I. AGENCIES WHERE RESULTS OF ANALYSES ARE RECORDED

II. REFERENCES WHERE RESULTS OF ANALYSES ARE RECORDED

I. AGENCIES

NOTE: Agency references are without parentheses

A- 1. Alameda City Health Department
Alameda, California

A- 2. Alameda County Health Department
San Leandro, California

A- 3. Armour Research Foundation
Chicago, Illinois

A- 4. A.S.M.E. Committee on Air Pollution Control
Box 41
32 W. 40th Street
New York, New York

A- 5. Akron City Department of Public Health
Municipal Building
Akron 8, Ohio

A- 6. Arctic Health Research Center
Anchorage, Alaska

B- 1. Berkeley City Health Department
Berkeley, California

B- 2. Baltimore City Health Department
Bureau of Industrial Hygiene
Division of Air Pollution Control
Municipal Office Building
Holiday and Lexington Streets
Baltimore 2, Maryland

B- 3. Binghamton City Department of Public Safety
Bureau of Health
Binghamton, New York

B- 4. Buffalo City Department of Public Works
Bureau of Smoke Abatement
2501 City Hall
Buffalo 2, New York

C- 1. California State Department of Public Health
Bureau of Air Sanitation
2151 Berkeley Way
Berkeley 4, California

C- 2. Contra Costa Health Department
P. O. Box 871
Martinez, California

C- 3. Colorado State Department of Public Health
Occupational Health Section
430 State Office Building
Denver 2, Colorado

C- 4. Chicago City Department of Air Pollution Control
City Hall, 119 North LaSalle Street
Chicago 2, Illinois

C- 5. Chicago City Department of Health
Chicago, Illinois

C- 6. Capitol Chapter of Professional Engineers
Springfield, Illinois

C- 7. Columbus City Division of Smoke Regulation and Inspection
181 Washington Boulevard
Columbus, Ohio

C- 8. Cincinnati City Bureau of Air Pollution Control and Heating Inspection
417 Lincoln Park Drive
Cincinnati 3, Ohio

C- 9. Chattanooga City Bureau of Air Pollution Control and Boiler Inspection
City Hall
Chattanooga 2, Tennessee

C-10. University of Cincinnati
College of Medicine
Department of Preventive Medicine and Hygiene
Cincinnati, Ohio

C-11. University of California
Berkeley, California

C-12. Cleveland City Department of Urban Reneval and Housing
Division of Air Pollution Control
14101 Lake Shore Boulevard
Cleveland 10, Ohio

C-13. California Institute of Technology
Pasadena, California

C-14. Connecticut State Department of Health
165 Capitol Avenue
Hartford, Connecticut

C-15. Christy, W. G.
Consulting Engineer
34 Park Row
New York 38, New York

D- 1. Detroit City Department of Health
Bureau of Industrial Hygiene
Detroit, Michigan

D- 2. Detroit City Department of Buildings and Safety Engineering
Bureau of Smoke Inspection and Abatement
City-County Building
400 Woodward Avenue
Detroit 26, Michigan

D- 3. Dallas City Health Department
601 South Akard Street
Dallas 1, Texas

D- 4. Denver City Department of Health and Hospitals
City-County Building
Denver, Colorado

D- 5. District of Columbia Department of Public Health
300 Indiana Avenue, N.W.
Washington 1, D. C.

E- 1. East Chicago City Bureau of Air Pollution Control
City Hall, 4525 Indianapolis Boulevard
East Chicago, Indiana

E- 2. El Paso City-County Health Unit
118 West Missouri Street
El Paso, Texas

E- 3. East Side Health District
East St. Louis, Missouri

F- 1. Florida State Board of Health
Division of Industrial Hygiene
P. O. Box 210
Jacksonville 1, Florida

F- 2. Fulton County Health Department
224 Central Avenue, S.W.
Atlanta 3, Georgia

F- 3. Fort Worth City Public Health and Welfare Department
City Hall
1000 Throckmorton Street
Fort Worth 2, Texas

F- 4. University of Florida
College of Engineering
Sanitary Engineering Laboratory
Gainesville, Florida

H- 1. Territory of Hawaii Department of Health
Queen and Punchbowl Streets
Honolulu, Hawaii

H- 2. Houston City Health Department
City Hall
Houston 2, Texas

I- 1. Indianapolis City Department of Public Safety
Bureau of Air Pollution Control
City Hall
202 North Alabama Street
Indianapolis 4, Indiana

I- 2. Illinois Department of Public Health
Division of Sanitary Engineering
400 South Spring Street
Springfield, Illinois

I- 3. Industrial Hygiene Foundation
Mellon Institute
Pittsburgh 13, Pennsylvania

J- 1. Jefferson County Air Pollution Control District
304 City Hall
601-05 West Jefferson Street
Louisville 2, Kentucky

K- 1. Keokuk Electric Metals Company
Keokuk, Iowa

K- 2. Knoxville City Department of Public Service
Bureau of Smoke Regulation and Boiler Inspection
City Hall Park
Knoxville 9, Tennessee

K- 3. Kansas City Health Department
City Hall
Kansas City 6E, Missouri

L- 1. Los Angeles County Air Pollution Control District
434 South San Pedro Street
Los Angeles 13, California

L- 2. Los Angeles City Department of Water and Power
Los Angeles, California

L- 3. Lorain City Sewage Treatment Plant
Lorain, Ohio

L- 4. Longview City Council
Air Pollution Committee
Longview, Washington

L- 5. Louisiana State Department of Health
1436 Dryades Street
New Orleans 13, Louisiana

M- 1. Massachusetts Department of Public Health
Division of Sanitary Engineering
511 State House
Boston 33, Massachusetts

M- 2. Michigan Department of Health
Division of Occupational Health
Office of the Ventilation Engineer
Old Dewitt Road
Lansing 4, Michigan

M- 3. Minnesota Department of Health
Division of Environmental Sanitation
Industrial Health Section
University Campus
Minneapolis 14, Minnesota

M- 4. Madison City Department of Public Health
Madison, Wisconsin

M- 5. Manitowoc City Department of Public Health
817 Franklin Street
Manitowoc, Wisconsin

M- 6. Milwaukee County Department of Smoke Regulation
Court House, 901 North 9th Street
Milwaukee 3, Wisconsin

N- 1. New York City Department of Health
New York, New York

N- 2. New York City Department of Air Pollution Control
15 Park Row
New York 38, New York

N- 3. Nashville City Department of Public Works
Division of Smoke Regulation
City-County Building
Nashville 3, Tennessee

N- 4. New Jersey State Department of Health
17 West State Street
Trenton 8, New Jersey

O- 1. Oakland City Health Department
Oakland, California

O- 2. Oregon State Board of Health
Air Pollution Control Section
Oregon Air Pollution Authority
1400 S.W. 5th Avenue
Portland 1, Oregon

O- 3. Oshkosh City Health Department
City Hall Annex
91 Ceape Street
Oshkosh, Wisconsin

P- 1. Peoria City Department of Inspections
Division of Air Pollution Control
City Hall, 419 Fulton Street
Peoria, Illinois

P- 2. Pittsburgh City Bureau of Smoke Prevention
651 City-County Building
Pittsburgh 19, Pennsylvania

P- 3. Philadelphia City Department of Public Health
Division of Air Pollution Control and Environmental Sanitation
City Hall Annex
Philadelphia 7, Pennsylvania

P- 4. Pennsylvania Department of Health
1680 South Cameron Street
Harrisburg, Pennsylvania

S- 1. Santa Clara County Air Pollution Control District
2220 Moorpark Avenue
San Jose 28, California

S- 2. Santa Clara County Health Department
San Jose, California

S- 3. San Mateo County Health Department
225 37th Avenue
San Mateo, California

S- 4. San Francisco County Health Department
San Francisco, California

S- 5. St. Paul City Department of Public Utilities
Air Pollution Control Section
100 East 10th Street
St. Paul 2, Minnesota

S- 6. St. Louis City Department of Public Welfare
Health Division
Industrial Hygiene Section
Municipal Courts Building
1300 Market Street
St. Louis 3, Missouri

S- 7. Southern Ferro Alloys
Division of Tennessee Products
Chattanooga, Tennessee

S- 8. Salt Lake City Board of Health
Public Safety Building
115 South State Street
Salt Lake City 1, Utah

S- 9. Spokane City Health Department
221 North Wall Street
Spokane 1, Washington

S-10. Seattle City Engineering Department
404 County-City Building
Seattle, Washington

S-11. St. Louis City Division of Smoke Regulation
Room 419, City Hall
St. Louis 3, Missouri

S-12. Department of Health, Education, and Welfare
Public Health Service
Robert A. Taft Sanitary Engineering Center
4676 Columbia Parkway
Cincinnati 26, Ohio

S-13. San Francisco City Department of Public Health
San Francisco, California

T- 1. Tennessee Department of Public Health
Division of Industrial Hygiene Service
727 Cordell Hull Building, 6th Avenue, N.
Nashville, Tennessee

T- 2. Texas State Department of Health
410 East 5th Street
Austin, Texas

T- 3. Tacoma City Department of Public Works
Division of Buildings
Air Pollution Control Section
City Hall, 7th at Commerce Street
Tacoma, Washington

T- 4. Tampa City Department of Public Works
Tampa, Florida

U- 1. United States Alameda Air Station
Alameda, California

U- 2. Utah State Department of Health
130 State Capitol
Salt Lake City 1, Utah

V- 1. Victor Chemical Company
Mt. Pleasant, Tennessee

W- 1. Washington State College
Washington State Institute of Technology
Division of Industrial Research
Pullman, Washington

W- 2. University of Washington
Environmental Research Laboratory
Health Sciences Building
Seattle 5, Washington

W- 3. University of Washington
Department of Sanitary Engineering
Seattle 5, Washington
Attention: Prof. R. G. Taylor

W- 4. Washington State College
Western Washington Experiment Station
Puyallup, Washington

W- 5. Washington State College
Tree Fruit Experiment Station
Wenatchee, Washington

W- 6. West Virginia State Department of Health
Bureau of Industrial Hygiene
Room 554, State Office Building
Charleston, West Virginia

Y- 1. Youngstown City Department of Public Works
Division of Engineering
Air Pollution Control Section
City Hall
Boardman and Phelps Street
Youngstown 3, Ohio

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A P P E N D I X C

LIST OF ABBREVIATIONS

Abbreviations	Description
@	at
A.H.F.A.	Air Hygiene Foundation of America
A.I.S.I.	American Iron and Steel Institute
A.P.A.	Air Pollution Authority
A.P.C.	Air Pollution Control
A.P.C. Sec.	Air Pollution Control Section
A.P.F.	Air Pollution Foundation
A.S.M.E.	American Society of Mechanical Engineers
B.A.P.C.	Bureau of Air Pollution Control
B.A.P.C.B.I.	Bureau of Air Pollution Control and Boiler Inspection
B.A.P.C.H.I.	Bureau of Air Pollution Control and Heating Inspection
B.H.	Bureau of Health
Bd.H.	Board of Health
B.I.H.	Bureau of Industrial Hygiene
B.M.	Bureau of Mines

Abbreviations	Description
B.M.I.	Battelle Memorial Institute
B.S.A.	Bureau of Smoke Abatement
B.S.I.A.	Bureau of Smoke Inspection and Abatement
B.S.P.	Bureau of Smoke Prevention
B.S.R.B.I.	Bureau of Smoke Regulation and Boiler Inspection
B.T.I.P.R.	Boyce Thompson Institute for Plant Research
C.A.P.C.D.	County Air Pollution Control District
C.C.H.U.	City-County Health Unit
C.D.S.R.	County Department of Smoke Regulation
C.H.D.	County Health Department
C.I.T.	California Institute of Technology
Co.	Company
Col.	College
Cont.	Continuous. Refers to the continuous sampling and recording as done by automatic instruments, such as the Thomas Autometer and Titrilog.
D.A.P.C.	Department of Air Pollution Control
D.B.	Department of Buildings

Abbreviations	Description
D.Ch.E.	Department of Chemical Engineering
D.E.	Division of Engineering
D.H.	Department of Health
D.H.H.	Department of Health and Hospitals
D.H.W.	Department of Health and Welfare
D.I.	Division of Inspection
D.I.H.S.	Division of Industrial Hygiene Service
D.L.I.	Department of Labor and Industries
D.P.H.	Department of Public Health
D.P.H.P.M.	Department of Public Health and Preventative Medicine
D.P.U.	Department of Public Utilities
D.P.W.	Department of Public Works
D.P.Wel.	Department of Public Welfare
D.S.E.	Department of Sanitary Engineering
D.S.I.	Division of Smoke Inspection
D.S.R.	Department of Smoke Regulation
D.S.R.I.	Division of Smoke Regulation and Inspection
D.W.P.	Department of Water and Power

Abbreviations	Description
Div.A.P.C.	Division of Air Pollution Control
Div.I.R.	Division of Industrial Research
Div.S.R.	Division of Smoke Regulation
E.D.	Engineering Department
Eng.	Engineering
Engr.	Engineer
H.D.	Health Department
I.I.R.	Institute of Industrial Research
I.H.F.A.	Industrial Hygiene Foundation of America
I.J.C.T.A.B.	International Joint Commission Technical Advisory Board (U.S. Section)
Inc.	Incorporated
Inst.	Instantaneous. Refers to the relatively short period of ', usually less than one minute, required for the collection o pollutants with evacuated flasks and other equipment employing brief durations of sampling.
Lab.	Laboratory (or Laboratories)

Abbreviations	Description
M.S.A.	Mine Safety Appliances Company
NR	Not recorded. Information has been omitted because of lack of data, uncertainties in the interpretation of material reported by agencies or literature, unintentional oversight, or editorial difficulties.
P.H.S.	Public Health Service
S.R.I.	Stanford Research Institute
Rov'g	Roving
U.	University
U.S.D.H.E.W.	United States Department of Health, Education, and Welfare
U.S.D.I.	United States Department of the Interior
U.S.D.T.	United States Department of the Treasury
U.S.N.	United States Navy
U.S.W.B.	United States Weather Bureau
Wt.	Weight

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San Francisco----------38
San Jose----------43
San Leandro----------8
Colorado
Denver----------50
Connecticut
Waterbury----------53
District of Columbia
Washington----------59
Florida
Tampa----------63
Georgia
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Illinois
Chicago----------76
E. St. Louis----------78

CADMIUM (Cd), SUSPENDED PARTICULATE (Cont'd)

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E. Chicago----------82
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Louisville----------90
Louisiana
New Orleans----------94
Massachusetts
Boston----------107
Michigan
Detroit----------113
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis----------121
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Kansas City----------127
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Camden----------130
Elizabeth----------142
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Lakehurst----------140
Paulsboro----------132
Perth Amboy----------138
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CADMIUM (Cd), SUSPENDED PARTICULATE (Cont'd)

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Washington
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Marine City----------109
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CALCIUM (Ca), SUSPENDED PARTICULATE (Cont'd)

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Salt Lake City---------245
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Pennsylvania
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Illinois
Chicago----------74
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CHLORIDES, SUSPENDED PARTICULATE (Cont'd)

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- Pasadena----30, 31
- San Francisco----37, 38
- San Jose----43
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Same as Barium (Ba), Suspended Particulate

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Burbank----------12
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E. San Jose----------39
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Los Gatos----------40
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Palo Alto----------40
Permanente----------41
San Jose----------41
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Chicago----------70,71
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Boston----104
Chicopee----102
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San Francisco----------37
Colorado
Denver----------49
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Washington----------57
Florida
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Michigan
Detroit----------112,115
Minnesota
Minneapolis----------119
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Kansas City----------125
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Cincinnati---------165,167
Oregon
Sauvie Island----------205
Pennsylvania
Philadelphia----------226
Texas
Houston----------238
Ft. Worth----------240
Utah
Salt Lake City---------246
West Virginia
Charleston----------264,265,266

GALLIUM (Ga)
New York
New York----------153

GERMANIUM (Ge)
New York
New York----------153

HYDROCARBONS
California
Altadena----------10
Azusa----------11
Burbank----------12
Dominguez----------14
El Monte----------15
Los Angeles----------20
Pasadena----------28
South Gate----------33
Kentucky
Louisville----------86

HYDROGEN FLUORIDE
Tennessee
Mt. Pleasant----------234
Washington
Kelso----------252
Longview----------253
Spokane----------259
Tacoma----------257

HYDROGEN SULFIDE
California
Los Gatos----------40
Palo Alto----------41
San Jose----------42
Florida
Tampa----------61

HYDROGEN SULFIDE (Cont'd)
Maryland
Baltimore----------96
New York
Buffalo----------146
New York----------150
Ohio
Lorain----------168
Pennsylvania
Donora----------228
Pittsburgh----------219
West Virginia
Charleston----------263
Wisconsin
Madison----------270

INORGANICS, SUSPENDED PARTICULATE (Also see Metallic Ions)
Alaska
Anchorage----------2

INSOLUBLES, DUSTFALL
Connecticut
E. Hartford----------52
Illinois
Chicago----------71
Indiana
E. Chicago----------81
Massachusetts
Amherst----------103
Andover----------100
Boston----------104
Chicopee----------102
Everett----------104
Holyoke----------103
Lawrence----------101

INSOLUBLES, DUSTFALL (Cont'd)
Massachusetts (Cont'd)
Marblehead----------101
Pittsfield----------100
Salem----------102
Minnesota
Hopkins----------119
New Jersey
Perth Amboy----------136
New York
New York----------148,149
Ohio
Cincinnati----------163
Oregon
(See Dustfall)
Pennsylvania
Pittsburgh----------218
Tennessee
Nashville----------231
Washington
Seattle----------254
Tacoma----------257

IRIDIUM (Ir)
Michigan
Detroit----------114,115

IRON (Fe), DUSTFALL
District of Columbia
Washington----------55
Kentucky
Louisville----------86
Ohio
Cincinnati----------163
West Virginia
Charleston----------263

IRON (Fe), SUSPENDED PARTICULATE
District of Columbia
Washington----------58,59
Florida
Tampa----------62,63
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville-----87,88,89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------107
Michigan
Detroit----113,114,115,116
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis--------120,121
Missouri
Kansas City--------126,127
New Jersey
Camden----------129,130
Elizabeth----------142
Jersey City--------133,134
Lakehurst----------139,140
Paulsboro----------131,132
Perth Amboy--------136,138
Trenton----------135
New York
New York-------153,156,157

IRON (Fe), SUSPENDED PARTICULATE (Cont'd)

Ohio
Cincinnati---------166,167
Oregon
Portland--------203,204,205
Pennsylvania
Bristol----------222
Chester----------223
Philadelphia-------226,227
Williamsport-----------224
Tennessee
Chattanooga-----------233
Texas
Bellaire----------237
Houston-----------238,239
Ft. Worth---------240,242
Utah
Salt Lake City-245,246,248
West Virginia
Charleston-264,265,266,267

IRON OXIDE (Fe_2O_3)

Illinois
Chicago----------70
Kentucky
Louisville----------87
Pennsylvania
Pittsburgh----------219

IRON OXIDE (Fe_2O_3), DUSTFALL

Ohio
Cleveland----------159
Pennsylvania
Pittsburgh---------217,218

IRON OXIDE (Fe_2O_3), SUSPENDED PARTICULATE

California
Los Angeles----------25
San Francisco----------36
District of Columbia
Washington----------56
Illinois
Chicago----------74
Louisiana
New Orleans----------92
Maryland
Baltimore----------97
Massachusetts
Boston----------105
Michigan
Detroit----------112
Missouri
St. Louis----------124
New York
Buffalo----------147
New York----------152
Ohio
Cleveland----------161
Pennsylvania
Philadelphia----------225
Pittsburgh----------220

LEAD (Pb), DUSTFALL

California
Benico----------44
Vallejo----------44
Ohio
Cincinnati----------163
West Virginia
Charleston----------263

LEAD (Pb), SUSPENDED PARTICULATE

Alaska
Anchorage----------3,4
California
Los Angeles----------27
Pasadena---------30,31,32
San Francisco--------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------58,59
Florida
Tampa----------62,63
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------89,90
Louisiana
New Orleans---------93,94
Massachusetts
Boston----------107
Michigan
Detroit----113,114,115,116
Marine City----------109
St. Clair----------109

LEAD (Pb), SUSPENDED PARTICULATE (Cont'd)
Minnesota
Minneapolis--------120,121
Missouri
Kansas City--------126,127
New Jersey
Camden-------------129,130
Elizabeth----------142
Jersey City--------133,134
Lakehurst----------139,140
Paulsboro----------131,132
Perth Amboy--------136,138
Trenton------------135
New York
New York---153,155,156,157
Ohio
Cincinnati---------166,167
Oregon
Portland-------203,204,205
Pennsylvania
Bristol------------222
Chester------------223
Donora-------------229
Philadelphia-------226,227
Williamsport-------224
Tennessee
Chattanooga--------233
Texas
Bellaire-----------237
Houston------------238,239
Ft. Worth----------240,242
Utah
Salt Lake City-245,246,248
Washington
Seattle------------255
West Virginia
Charleston-----265,266,267

LEAD OXIDE (PbO), DUSTFALL
Pennsylvania
Pittsburgh---------219

LITHIUM (Li), SUSPENDED PARTICULATE
New York
New York-----------153

MAGNESIUM (Mg), DUSTFALL
Kentucky
Louisville---------86
West Virginia
Charleston---------263

MAGNESIUM (Mg), SUSPENDED PARTICULATE
Alaska
Anchorage----------3
California
Los Angeles--------27
Pasadena-----------30
San Francisco------37
Colorado
Denver-------------49
District of Columbia
Washington---------58
Florida
Tampa--------------62
Georgia
Atlanta------------66
Illinois
Chicago------------75
Kentucky
Louisville--------87,88,89
Louisiana
New Orleans--------93

MAGNESIUM (Mg), SUSPENDED PARTICULATE (Cont'd)
Michigan
Detroit----113,114,115,116
Marine City--------109
St. Clair----------109
Minnesota
Minneapolis--------120
Missouri
Kansas City--------126
New Jersey
Camden-------------129
Jersey City--------133
Lakehurst----------139
Paulsboro----------131
Perth Amboy--------136
New York
New York-----------153,156
Ohio
Cincinnati---------166,167
Oregon
Portland-----------203,204
Pennsylvania
Philadelphia-------226
Texas
Houston------------238
Ft. Worth----------240
Utah
Salt Lake City-----245,246
West Virginia
Charleston---------265,266

MAGNESIUM OXIDE (MgO), DUSTFALL
Illinois
Chicago------------70
Pennsylvania
Pittsburgh---------219

MAGNESIUM OXIDE (MgO), SUSPENDED PARTICULATE
Kentucky
Louisville----87

MANGANESE (Mn), DUSTFALL
Ohio
Cincinnati----163

MANGANESE (Mn), SUSPENDED PARTICULATE
Alaska
Anchorage----3,4
California
Los Angeles----27
Pasadena----30,32
San Francisco----37,38
San Jose----43
San Leandro----8
Colorado
Denver----49,50
Connecticut
Waterbury----53
District of Columbia
Washington----58,59
Florida
Tampa----62,63
Georgia
Atlanta----66,67
Illinois
Chicago----75,76
E. St. Louis----78
Indiana
E. Chicago----82
Kentucky
Louisville----89,90
Louisiana
New Orleans----93,94

MANGANESE (Mn), SUSPENDED PARTICULATE (Cont'd)
Massachusetts
Boston----107
Michigan
Detroit----113,114,115,116
Marine City----109
St. Clair----109
Minnesota
Minneapolis----120,121
Missouri
Kansas City----126,127
New Jersey
Camden----129,130
Elizabeth----142
Jersey City----133,134
Lakehurst----139,140
Paulsboro----131,132
Perth Amboy----136,138
Trenton----135
New York
New York----153,156,157
Ohio
Cincinnati----166,167
Oregon
Portland----202,204,205
Pennsylvania
Bristol----222
Chester----223
Philadelphia----226,227
Williamsport----224
Tennessee
Chattanooga----232,233
Texas
Bellaire----237
Houston----238,239
Ft. Worth----240,242

MANGANESE (Mn), SUSPENDED PARTICULATE (Cont'd)
Utah
Salt Lake City-245,246,248
West Virginia
Charleston-264,265,266,267

MANGANESE OXIDE (MnO), DUSTFALL
Pennsylvania
Pittsburgh----219

MERCURY (Hg), DUSTFALL
West Virginia
Charleston----263

MERCURY (Hg), SUSPENDED PARTICULATE
Ohio
Cincinnati----166
Utah
Salt Lake City----245
West Virginia
Charleston----265

METALLIC IONS, SUSPENDED PARTICULATE (Also see Inorganics; Antimony; Arsenic; Barium; Beryllium; Bismuth; Cadmium; Calcium; Chromium; Cobalt; Copper; Gallium; Germanium; Iridium; Iron; Lead; Lithium; Magnesium; Manganese; Mercury; Molybdenum; Nickel; Potassium; Silicon; Silver; Sodium; Strontium; Tin; Titanium; Tungsten; Vanadium; Zinc)
Texas
Dallas----236

MOLYBDENUM (Mo), DUSTFALL
West Virginia
Charleston----------263

MOLYBDENUM (Mo), SUSPENDED PARTICULATE
Same as Barium (Ba), Suspended Particulate

NICKEL (Ni), DUSTFALL
West Virginia
Charleston----------263

NICKEL (Ni), SUSPENDED PARTICULATE
Alaska
Anchorage----------4
California
Pasadena----------31
San Francisco----------38
San Jose----------43
San Leandro----------8
Colorado
Denver----------50
Connecticut
Waterbury----------53
District of Columbia
Washington----------59
Florida
Tampa----------63
Georgia
Atlanta----------67
Illinois
Chicago----------76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------90

NICKEL (Ni), SUSPENDED PARTICULATE (Cont'd)
Louisiana
New Orleans----------94
Massachusetts
Boston----------107
Michigan
Detroit--------113,114,115
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis----------121
Missouri
Kansas City----------127
New Jersey
Camden----------130
Elizabeth----------142
Jersey City----------134
Lakehurst----------140
Paulsboro----------132
Perth Amboy----------138
Trenton----------135
New York
New York----------153,157
Oregon
Portland----------205
Pennsylvania
Bristol----------222
Chester----------223
Philadelphia----------227
Williamsport----------224
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------239
Ft. Worth----------242
Utah
Salt Lake City-----245,248

NICKEL (Ni), SUSPENDED PARTICULATE (Cont'd)
West Virginia
Charleston-----264,265,267

NITRATES, DUSTFALL
New York
New York----------150

NITRATES, SUSPENDED PARTICULATE
Alaska
Anchorage----------3,4
California
Los Angeles----------26
Pasadena----------30,31
San Francisco--------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------57,58
Florida
Tampa----------62,63
Georgia
Atlanta----------67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------81
Kentucky
Louisville----------89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------106

NITRATES, SUSPENDED PARTICULATE (Cont'd)
Michigan
Detroit----------115
Minnesota
Minneapolis--------119,120
Missouri
Kansas City--------125,126
New Jersey
Camden----------129,130
Elizabeth----------141
Jersey City--------133,134
Lakehurst----------139,140
Paulsboro----------131,132
Perth Amboy--------136,137
Trenton----------135
New York
New York----------155,156
Ohio
Cincinnati----------167
Oregon
Portland----------203,204
Pennsylvania
Bristol----------221
Chester----------222
Philadelphia-------226,227
Williamsport----------223
Tennessee
Chattanooga----------233
Texas
Bellaire----------236
Houston----------238,239
Ft. Worth----------240,241
Utah
Salt Lake City-----246,247
West Virginia
Charleston---------266,267

NITROGEN COMPOUNDS
Illinois
Chicago----------70

NITROGEN DIOXIDE
California
Altadena----------10
Burbank----------12
Dominguez----------14
El Monte----------15
Los Angeles----------20,21
Pasadena----------29
South Gate----------33
Torrance----------34
Colorado
Denver----------49
New York
New York----------151
Ohio
Cincinnati----------164

NITROGEN OXIDES
California
Los Angeles----------21
Los Gatos----------40
Palo Alto----------41
San Jose----------42
Ohio
Cincinnati----------164
Pennsylvania
Donora----------228
West Virginia
Charleston----------263

NITROUS ACID (Also see Nitrous Acid, Dustfall and Nitrous Acid, Suspended Particulate)
Utah
Salt Lake City---------244

NITROUS ACID, DUSTFALL
Illinois
Chicago----------71

NITROUS ACID, SUSPENDED PARTICULATE
Illinois
Chicago----------72,73

NONCOMBUSTIBLES, DUSTFALL (Also see Ash, Dustfall)
Illinois
Chicago----------71
Indiana
E. Chicago----------81
Minnesota
St. Paul----------121
Tennessee
Chattanooga----------231
Knoxville----------234

NONCOMBUSTIBLES, SUSPENDED PARTICULATE (Also see Ash, Suspended Particulate)
Tennessee
Chattanooga----------232

NONVOLATILES, INSOLUBLE, DUSTFALL
Oregon
(See Dustfall)

NONVOLATILES, SOLUBLE, DUSTFALL
Oregon
(See Dustfall)

ORGANICS, DUSTFALL (Also see Bitumen and Tar)
Illinois
Chicago----------70

ORGANICS, SUSPENDED PARTICULATE (Also see Bitumen and Tar)
Alaska
Anchorage----------2,3,4
California
Los Angeles----------26
Pasadena----------30,31,32
San Francisco--------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------57,58
Florida
Tampa----------62,63
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------81
Kentucky
Louisville--------87,89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------106
Pittsfield----------100

ORGANICS, SUSPENDED PARTICULATE (Cont'd)
Michigan
Detroit----------116
Minnesota
Minneapolis--------119,120
Missouri
Kansas City----------125
New Jersey
Camden----------129,130
Elizabeth----------141
Jersey City--------133,134
Lakehurst------138,139,140
Paulsboro----------131,132
Perth Amboy--------136,137
Trenton----------135
New York
New York----------153,156
Ohio
Cincinnati----------167
Oregon
Eugene----------194
Klamath Falls----------192
Medford----------190
Pendleton----------210
Portland-------202,203,204
Pennsylvania
Bristol----------221
Chester----------222
Philadelphia------226,227
Williamsport----------223
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------238,239
Ft. Worth----------240,241
Utah
Salt Lake City-245,246,247

OXIDANT
California
Alameda----------6
Altadena----------10
Artesia----------10
Azusa----------11
Bassett----------11
Berkeley----------6
Burbank----------13
Centerville----------7
Dominguez----------14
El Monte----------15
Emeryville----------7
Lancaster----------15
Lennox----------16
Los Angeles----------21,22
Los Gatos----------40
Martinez----------9
Morongo Valley----------35
Oakland----------7
Pasadena----------29
Richmond----------9
Rivera----------32
San Francisco----------38
San Jose----------42
San Leandro----------7,8
South Gate----------33
Torrance----------34
District of Columbia
Washington----------55
Indiana
Hammond----------82
Whiting----------82
Kentucky
Louisville----------86
Michigan
Ann Arbor----------109
Detroit----------110
Missouri
St. Louis----------123

OXIDANT (Cont'd)
New Jersey
Elizabeth----------140
New York
New York----------151
Ohio
Akron----------168
Cincinnati----------164
Oregon
Portland----------202
Pennsylvania
Philadelphia----------224
West Virginia
Charleston----------264

OZONE
Alaska
College----------4
California
Altadena----------10
Los Angeles----------22,23
Pasadena----------29
South Gate----------33
Torrance----------34
New Jersey
Murray Hill----------142
New Mexico
Albuquerque----------144

PARTICLE COUNT, DUSTFALL
Connecticut
New Haven----------52

PARTICLE COUNT, SUSPENDED PARTICULATE
California
Los Angeles----------24
San Francisco----------36

PARTICLE COUNT, SUSPENDED PARTICULATE (Cont'd)
District of Columbia
Washington----------56
Illinois
Chicago----------73
Kentucky
Louisville----------88
Louisiana
New Orleans----------92
Maryland
Baltimore----------97
Massachusetts
Boston----------105
Michigan
Detroit----------111,113
Grand Rapids----------116
Marine City----------109
St. Clair----------109
Missouri
St. Louis----------124
New York
Buffalo----------146
New York----------152,154
Ohio
Cincinnati----------165
Cleveland----------160
Pennsylvania
Philadelphia----------225
Pittsburgh----------220

PARTICLE SIZE, DUSTFALL
West Virginia
Belle----------262
Charleston----------262

PARTICLE SIZE, SUSPENDED PARTICULATE
Alaska
Anchorage----------2

PARTICLE SIZE, SUSPENDED PARTICULATE (Cont'd)
California
Los Angeles----------24
San Francisco----------36
District of Columbia
Washington----------56
Illinois
Chicago----------73
Kentucky
Louisville----------87
Louisiana
New Orleans----------92
Maryland
Baltimore----------97
Massachusetts
Boston----------105
Michigan
Detroit----------111,113
Missouri
St. Louis----------124
New York
Buffalo----------146
New York----------152,154
Ohio
Cincinnati----------165
Cleveland----------160
Pennsylvania
Philadelphia----------225
Pittsburgh----------220

pH, DUSTFALL (Also see Acidity, Dustfall)
Massachusetts
Andover----------101
Boston----------104
Everett----------104
Lawrence----------101
Marblehead----------101
Salem----------102

pH, DUSTFALL (Cont'd)
New York
New York----------150

pH, SUSPENDED PARTICULATE
Alaska
Anchorage----------3,4
California
Los Angeles----------26
Pasadena----------30,31
San Francisco---------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------57,58
Florida
Tampa----------62,63
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------81
Kentucky
Louisville----------89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------106
Michigan
Detroit----------116
Minnesota
Minneapolis---------119,120
Missouri
Kansas City---------125,126

pH, SUSPENDED PARTICULATE (Cont'd)
New Jersey
Camden----------129,130
Elizabeth----------141
Jersey City---------133,134
Lakehurst----------139,140
Paulsboro----------131,132
Perth Amboy---------136,137
Trenton----------135
New York
New York----------156,157
Ohio
Cincinnati----------167
Oregon
Portland----------203,204
Pennsylvania
Bristol----------221
Chester----------222
Philadelphia-------226,227
Williamsport----------223
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------238,239
Ft. Worth----------240,241
Utah
Salt Lake City-----246,247

PHOSPHATES, DUSTFALL
New York
New York----------150

POTASSIUM (K), SUSPENDED PARTICULATE
Alaska
Anchorage----------3

POTASSIUM (K), SUSPENDED PARTICULATE (Cont'd)
California
Los Angeles----------27
Pasadena----------30
San Francisco----------37
Colorado
Denver----------49
District of Columbia
Washington----------58
Florida
Tampa----------62
Georgia
Atlanta----------66
Illinois
Chicago----------75
Kentucky
Louisville----------89
Michigan
Detroit----------116
Minnesota
Minneapolis----------119
Missouri
Kansas City----------126
New Jersey
Camden----------129
Jersey City----------133
Lakehurst----------139
Paulsboro----------131
Perth Amboy----------136
New York
New York----------156
Ohio
Cincinnati---------166,167
Oregon
Portland----------204
Pennsylvania
Philadelphia----------226
Texas
Houston----------238
Ft. Worth----------240

POTASSIUM (K), SUSPENDED PARTICULATE (Cont'd)
Utah
Salt Lake City---246
West Virginia
Charleston---265

PROTEIN, SUSPENDED PARTICULATE
Alaska
Anchorage---2

RADIOACTIVITY, DUSTFALL
New York
New York---150

RADIOACTIVITY, SUSPENDED PARTICULATE
Alaska
Anchorage---2,3,4
California
Berkeley---7
Los Angeles---26
Pasadena---30,31
San Francisco---37,38
San Jose---43
San Leandro---8
Colorado
Denver---49,50
Connecticut
Waterbury---53
District of Columbia
Washington---57,58
Florida
Tampa---62,63
Georgia
Atlanta---66,67
Illinois
Chicago---75,76
E. St. Louis---78

RADIOACTIVITY, SUSPENDED PARTICULATE (Cont'd)
Indiana
E. Chicago---82
Kentucky
Louisville---89,90
Louisiana
New Orleans---93,94
Massachusetts
Boston---106
Michigan
Detroit---116
Minnesota
Minneapolis---119,120
Missouri
Kansas City---125,126
New Jersey
Elizabeth---141
Jersey City---134
Perth Amboy---137
New York
New York---154,156,157
Ohio
Cincinnati---167
Oregon
Portland---203,204
Pennsylvania
Bristol---221
Chester---222
Philadelphia---226,227
Williamsport---224
Tennessee
Chattanooga---233
Texas
Bellaire---237
Houston---238,239
Ft. Worth---240,241
Utah
Salt Lake City---246,247

RADIOACTIVITY, SUSPENDED PARTICULATE (Cont'd)
Washington
Seattle---256
West Virginia
Charleston---266,267

SILICA (SiO_2), DUSTFALL
Illinois
Chicago---70
Maryland
Baltimore---96
Pennsylvania
Pittsburgh---219

SILICA (SiO_2), SUSPENDED PARTICULATE
California
Los Angeles---25
San Francisco---36
District of Columbia
Washington---57
Illinois
Chicago---74
Kentucky
Louisville---87
Louisiana
New Orleans---92
Maryland
Baltimore---97
Massachusetts
Boston---106
Michigan
Detroit---112
Missouri
St. Louis---124
New York
Buffalo---147
New York---153

SILICA (SiO_2), SUSPENDED PARTICULATE (Cont'd)
Ohio
Cleveland----------161
Pennsylvania
Philadelphia----------225
Pittsburgh----------220

SILICON (Si), DUSTFALL
District of Columbia
Washington----------55
Kentucky
Louisville----------86
Ohio
Cincinnati----------163
West Virginia
Charleston----------263

SILICON (Si), SUSPENDED PARTICULATE
Kentucky
Louisville----------87,88
Michigan
Detroit----------113,114
Marine City----------109
St. Clair----------109
New York
New York----------153
Utah
Salt Lake City---------245
Washington
Longview----------253
West Virginia
Charleston---------264,265

SILVER (Ag), SUSPENDED PARTICULATE
Alaska
Anchorage----------3

SILVER (Ag), SUSPENDED PARTICULATE (Cont'd)
California
Los Angeles----------27
Pasadena----------30
San Francisco----------37
Colorado
Denver----------49
District of Columbia
Washington----------58
Florida
Tampa----------62
Illinois
Chicago----------75
Kentucky
Louisville----------89
Louisiana
New Orleans----------93
Michigan
Detroit----------116
Minnesota
Minneapolis----------119
Missouri
Kansas City----------126
New Jersey
Camden----------129
Jersey City----------133
Lakehurst----------139
Paulsboro----------131
Perth Amboy----------136
New York
New York----------153,156
Ohio
Cincinnati---------166,167
Oregon
Portland----------204
Pennsylvania
Philadelphia----------226

SILVER (Ag), SUSPENDED PARTICULATE (Cont'd)
Texas
Houston----------238
Ft. Worth----------240
Utah
Salt Lake City---------246
West Virginia
Charleston----------264

SIZE (See Particle Size)

SODIUM (Na), DUSTFALL
Kentucky
Louisville----------86
New York
New York----------150
Washington
Longview----------253
Tacoma----------257

SODIUM (Na), SUSPENDED PARTICULATE
Alaska
Anchorage----------3
California
Los Angeles----------27
Pasadena----------30
San Francisco----------37
Colorado
Denver----------49
District of Columbia
Washington----------58
Florida
Tampa----------62
Georgia
Atlanta----------66
Illinois
Chicago----------75

SODIUM (Na), SUSPENDED PARTICULATE (Cont'd)

Kentucky
Louisville----------87,89
Louisiana
New Orleans----------93
Michigan
Detroit----------116
Minnesota
Minneapolis----------120
Missouri
Kansas City----------126
New Jersey
Camden----------129
Jersey City----------133
Lakehurst----------139
Paulsboro----------131
Perth Amboy----------136
New York
New York----------153,156
Ohio
Cincinnati---------166,167
Oregon
Portland----------203,204
Pennsylvania
Philadelphia----------226
Texas
Houston----------238
Ft. Worth----------240
Utah
Salt Lake City---------246
West Virginia
Charleston---------265,266

SODIUM CHLORIDE, DUSTFALL

Oregon
(See Dustfall)

SOILING, DUSTFALL

Missouri
St. Louis----------123

SOILING, SUSPENDED PARTICULATE

California
Burbank----------13
Los Angeles----------25,27
Pasadena----------31
San Francisco----------36
District of Columbia
Washington----------56
Illinois
Chicago----------73,74
Kentucky
Louisville----------88
Louisiana
New Orleans----------93
Maryland
Baltimore----------97,98
Massachusetts
Boston----------105
Michigan
Detroit----------114
Missouri
St. Louis----------124,125
New York
Buffalo----------147
New York-------152,154,155
Ohio
Cincinnati----------166
Cleveland----------160,161
Columbus----------162
Oregon
Sauvie Island----------205
Pennsylvania
Pittsburgh---------220,221
Washington----------229

SOILING, SUSPENDED PARTICULATE (Cont'd)

Tennessee
Chattanooga----------232
Utah
Salt Lake City---------245
Virginia
Roanoke----------250
Washington
Seattle----------255,256
Tacoma----------258

SOLUBLES, DUSTFALL

California
Azusa----------11
Burbank----------12
Dominguez----------14
Los Angeles----------18,19
Manhattan Beach---------28
South Gate----------33
Temple City----------34
Connecticut
E. Hartford----------52
Illinois
Chicago----------71
Indiana
E. Chicago----------81
Massachusetts
Amherst----------103
Andover----------100
Boston----------104
Chicopee----------102
Everett----------104
Holyoke----------103
Lawrence----------101
Marblehead----------101
Pittsfield----------100
Salem----------102

SOLUBLES, DUSTFALL (Cont'd)

New Jersey
Perth Amboy----------136
New York
New York----------148,149
Oregon
(See Dustfall)
Pennsylvania
Pittsburgh----------218
Tennessee
Nashville----------231
Washington
Seattle----------254
Tacoma----------257

STRONTIUM (Sr)

Alaska
Anchorage----------3
California
Los Angeles----------27
Pasadena----------30
San Francisco----------37
Colorado
Denver----------49
District of Columbia
Washington----------58
Florida
Tampa----------62
Georgia
Atlanta----------66
Illinois
Chicago----------75
Kentucky
Louisville----------89
Louisiana
New Orleans----------93
Michigan
Detroit----------116

STRONTIUM (Sr) (Cont'd)

Minnesota
Minneapolis----------120
Missouri
Kansas City----------126
New Jersey
Camden----------129
Jersey City----------133
Lakehurst----------139
Paulsboro----------131
Perth Amboy----------136
New York
New York----------153,156
Ohio
Cincinnati----------167
Oregon
Portland----------204
Pennsylvania
Philadelphia----------226
Texas
Houston----------238
Ft. Worth----------240
Utah
Salt Lake City----------246
West Virginia
Charleston----------266

SULFATES (Also see Sulfates, Dustfall and Sulfates, Suspended Particulate)

Utah
Salt Lake City----------244

SULFATES, DUSTFALL

Massachusetts
Amherst----------103
Andover----------101
Boston----------104,106

SULFATES, DUSTFALL (Cont'd)

Massachusetts (Cont'd)
Chicopee----------102
Everett----------104
Holyoke----------103
Lawrence----------101
Marblehead----------101
Pittsfield----------100
Salem----------102
New York
New York----------149,150
Ohio
Cleveland----------150
Pennsylvania
Pittsburgh----------218
Washington
Longview----------253
Seattle----------254
Tacoma----------257

SULFATES, SUSPENDED PARTICULATE

Alaska
Anchorage----------3,4
California
Los Angeles----------25,26
Pasadena----------30,31
San Francisco----------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------58,59
Florida
Tampa----------62,63

SULFATES, SUSPENDED PARTICULATE (Cont'd)
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------89,90
Louisiana
New Orleans----------93,94
Massachusetts
Pittsfield----------100
Michigan
Detroit----------112,116
Minnesota
Minneapolis--------119,120
Missouri
Kansas City--------125,126
New Jersey
Camden----------129,130
Elizabeth----------142
Jersey City--------133,134
Lakehurst---------139,140
Paulsboro---------131,132
Perth Amboy--------136,137
Trenton----------135
New York
New York----------156,157
Ohio
Cincinnati---------165,167
Oregon
Portland----------204
Pennsylvania
Bristol----------221
Chester----------223

SULFATES, SUSPENDED PARTICULATE (Cont'd)
Pennsylvania (Cont'd)
Philadelphia-------226,227
Williamsport----------224
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------238,239
Ft. Worth---------240,241
Utah
Salt Lake City-----246,247
West Virginia
Charleston-264,265,266,267

SULFIDES
New York
New York----------151

SULFUR, DUSTFALL
Connecticut
New Haven----------52
Illinois
Chicago----------70

SULFUR, SUSPENDED PARTICULATE
California
Berkeley----------6
Los Angeles----------25
Martinez----------9
Oakland----------7
Richmond----------9
San Francisco--------35,36
District of Columbia
Washington----------57
Illinois
Chicago----------74
Louisiana
New Orleans----------92

SULFUR, SUSPENDED PARTICULATE (Cont'd)
Maryland
Baltimore----------97
Massachusetts
Boston----------106
Michigan
Detroit----------112
Missouri
St. Louis----------124
New York
Buffalo----------147
New York----------153
Ohio
Cleveland----------161
Pennsylvania
Donora----------228
Philadelphia----------225
Pittsburgh----------220

SULFUR COMPOUNDS, DUSTFALL
Illinois
Chicago----------71

SULFUR DIOXIDE
Alabama
Birmingham----------1
California
Altadena----------10
Benico----------44
Berkeley----------6
Burbank----------13
Crockett----------9
Dominguez----------14
El Monte----------15
El Segundo----------15
Long Beach----------27
Los Angeles----------23
Los Gatos----------40
Martinez----------9

SULFUR DIOXIDE (Cont'd)
California (Cont'd)
Oakland----7
Palo Alto----41
Redondo Beach----32
Richmond----9
San Francisco----35
San Jose----42
South Gate----33
Torrance----35
Vallejo----44
District of Columbia
Washington----55
Florida
Bartow----64
(Hillsborough County)---61
Mulberry----64
Tarpon Springs----63
Illinois
Chicago----72
E. St. Louis----77
Springfield----77
Indiana
Hammond----82
Whiting----82
Kentucky
Louisville----86
Maryland
Baltimore----96
Michigan
Ann Arbor----109
Detroit----110,111
Marine City----109
St. Clair----109
Missouri
St. Louis----123
New Jersey
Camden----129
Elizabeth----141

SULFUR DIOXIDE (Cont'd)
New York
Buffalo----146
New York----151
Yonkers----157
Ohio
Akron----168
Cincinnati----164,165
Cleveland----160
Oregon
Oregon City----173
Portland----202
Salem----206
Pennsylvania
Donora----228
Philadelphia----224,225
Pittsburgh----219
Utah
Salt Lake City----244
Virginia
Portsmouth----250
Richmond----250
Washington
Camas----252
Kelso----252
Longview----253
Northport----259
Seattle----255
Tacoma----257
Washougal----252
West Virginia
Charleston----264

SULFUR TRIOXIDE
California
Altadena----10
Burbank----13
Dominguez----14
El Monte----15
Los Angeles----24
South Gate----34

SULFURIC ACID
Illinois
Chicago----73
Washington
Seattle----255

SUSPENDED PARTICULATE (For constituents see Ash; Carbon; Combustibles; Noncombustibles; Organics; pH; Soiling; Tar; Weight, Total.)
Alaska
Anchorage----2,3,4
California
Berkeley----7
Burbank----13
Los Angeles----24,25,26,27
Los Gatos----40
Palo Alto----41
Pasadena----30,31,32
San Francisco----36,37,38
San Jose----42,43
San Leandro----8
Colorado
Denver----49,50
Connecticut
New Haven----52
Waterbury----53
District of Columbia
Washington----56,57,58
Florida
Ft. Meyers - Sarasota Coast----61
Sarasota - Ft. Meyers Coast----61
Tampa----61,62
Georgia
Atlanta----66,67
Illinois
Chicago----72,73,74,75
E. St. Louis----78

SUSPENDED PARTICULATE (Cont'd)
Indiana
E. Chicago----------81
Kentucky
Louisville--------87,88,89
Louisiana
New Orleans-------92,93,94
Maryland
Baltimore----------97,98
Massachusetts
Boston----------105,106
Pittsfield----------100
Michigan
Detroit----------111,112,
113,114,115
Grand Rapids----------116
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis--------119,120
Missouri
St. Louis----------124,125
Kansas City--------125,126
New Jersey
Camden----------129,130
Elizabeth----------141,142
Jersey City--------133,134
Lakehurst------138,139,140
Paulsboro----------131,132
Perth Amboy--------136,137
Trenton----------135
New York
Buffalo----------146,147
New York----------152,153,
154,155,156
Ohio
Cincinnati-----165,166,167
Cleveland----------160,161
Columbus----------162
Youngstown----------168

SUSPENDED PARTICULATE (Cont'd)
Oregon
Eugene----------194
Klamath Falls----------192
Medford----------190
Oswego----------174
Pendleton----------210
Portland-------202,203,204
Sauvie Island----------205
Pennsylvania
Bristol----------221
Chester----------222
Donora----------229
Philadelphia---225,226,227
Washington----------229
Williamsport----------223
Tennessee
Chattanooga--------232,233
Texas
Bellaire----------236
Dallas----------236
Ft. Worth----------240,241
Houston--------237,238,239
Utah
Salt Lake City-245,246,247
Virginia
Roanoke----------250
Washington
Quincy----------254
Seattle----------255,256
Tacoma----------258
West Virginia
Charleston-264,265,266,267

TAR, DUSTFALL (Also see Organics, Dustfall)
Maryland
Baltimore----------96

TAR, DUSTFALL (Cont'd)
Massachusetts
Amherst----------103
Chicopee----------102
Holyoke----------103
New York
New York----------149,150
Pennsylvania
Pittsburgh---------217,218

TAR, SUSPENDED PARTICULATE
(Also see Organics, Suspended Particulate)
New York
New York----------155

TIN (Sn), DUSTFALL
Ohio
Cincinnati----------163
West Virginia
Charleston----------263

TIN (Sn), SUSPENDED PARTICULATE
Alaska
Anchorage----------3,4
California
Los Angeles----------27
Pasadena----------30,32
San Francisco---------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53
District of Columbia
Washington----------58,59
Florida
Tampa----------62,63

TIN (Sn), SUSPENDED PARTICULATE (Cont'd)

Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------107
Michigan
Detroit----113,114,115,116
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis--------120,121
Missouri
Kansas City--------126,127
New Jersey
Camden----------129,130
Elizabeth----------142
Jersey City--------133,134
Lakehurst---------139,140
Paulsboro---------131,132
Perth Amboy--------136,138
Trenton----------135
New York
New York----------156,157
Ohio
Cincinnati---------166,167
Oregon
Portland-------203,204,205

TIN (Sn), SUSPENDED PARTICULATE (Cont'd)

Pennsylvania
Bristol----------222
Chester----------223
Philadelphia-------226,227
Williamsport----------224
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------238,239
Ft. Worth---------240,242
Utah
Salt Lake City-245,246,248
West Virginia
Charleston-264,265,266,267

TITANIUM (Ti), DUSTFALL

Ohio
Cincinnati----------16[illegible]
West Virginia
Charleston----------263

TITANIUM (Ti), SUSPENDED PARTICULATE

Alaska
Anchorage----------3,4
California
L[illegible] Angeles----------27
Pasadena----------30,32
San Francisco--------37,38
San Jose----------43
San Leandro----------8
Colorado
Denver----------49,50
Connecticut
Waterbury----------53

TITANIUM (Ti), SUSPENDED PARTICULATE (Cont'd)

District of Columbia
Washington----------58,59
Florida
Tampa----------62,63
Georgia
Atlanta----------66,67
Illinois
Chicago----------75,76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------89,90
Louisiana
New Orleans----------93,94
Massachusetts
Boston----------107
Michigan
Detroit----113,114,115,116
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis--------120,121
Missouri
Kansas City--------126,127
New Jersey
Camden----------129,130
Elizabeth----------142
Jersey City--------133,134
Lakehurst---------139,140
Paulsboro---------131,132
Perth Ambly--------136,138
Trenton----------135
New York
New York-------153,156,157
Ohio
Cincinnati---------166,167

TITANIUM (Ti), SUSPENDED PARTICULATE (Cont'd)
Oregon
Portland-------203, 204, 205
Pennsylvania
Bristol----------222
Chester----------223
Philadelphia-------226, 227
Williamsport----------224
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------238, 239
Ft. Worth----------240, 242
Utah
Salt Lake City-245, 246, 248
West Virginia
Charleston-264, 265, 266, 267

TUNGSTEN (W), DUSTFALL
West Virginia
Charleston----------263

TUNGSTEN (W), SUSPENDED PARTICULATE
Michigan
Detroit----------114, 115
Marine City----------109
St. Clair----------109
Oregon
Portland----------203
West Virginia
Charleston----------265

VANADIUM (V), DUSTFALL
Ohio
Cincinnati----------163
West Virginia
Charleston----------263

VANADIUM (V), SUSPENDED PARTICULATE
Same as Titanium (Ti), Suspended Particulate

VOLATILES, INSOLUBLE, DUSTFALL
Oregon
(See Dustfall)

VOLATILES, SOLUBLE, DUSTFALL
Oregon
(See Dustfall)

WEIGHT, TOTAL, DUSTFALL
(Same as Dustfall)

WEIGHT, TOTAL, SUSPENDED PARTICULATE
Alaska
Anchorage----------2, 3, 4
California
Los Angeles----------24, 26
Los Gatos----------40
Palo Alto----------41
Pasadena----------30, 31
San Francisco-----36, 37, 38
San Jose----------42, 43
San Leandro----------8
Colorado
Denver----------49, 50
Connecticut
New Haven----------52
Waterbury----------53
District of Columbia
Washington--------56, 57, 58
Florida
Tampa----------61, 62
Sarasota - Ft. Meyers Coast----------61

WEIGHT, TOTAL, SUSPENDED PARTICULATE (Cont'd)
Florida (Cont'd)
Ft. Meyers - Sarasota Coast----------61
Georgia
Atlanta----------66, 67
Illinois
Chicago----------73, 74, 75
E. St. Louis----------78
Indiana
E. Chicago----------81
Kentucky
Louisville--------87, 88, 89
Louisiana
New Orleans-------92, 93, 94
Maryland
Baltimore----------97
Massachusetts
Boston----------105, 106
Pittsfield----------100
Michigan
Detroit--------112, 114, 115
Grand Rapids----------116
Marine City----------109
St. Clair----------109
Minnesota
Minneapolis---------119, 120
Missouri
Kansas City--------125, 126
St. Louis----------124
New Jersey
Camden----------129, 130
Elizabeth----------141
Jersey City--------133, 134
Lakehurst------138, 139, 140
Paulsboro----------131, 132
Perth Amboy--------136, 137
Trenton----------135

WEIGHT, TOTAL, SUSPENDED PARTICULATE (Cont'd)

New York
Buffalo----------147
New York---152,153,155,156
Ohio
Cincinnati---------165,167
Cleveland----------161
Oregon
Eugene----------194
Klamath Falls----------192
Medford----------190
Oswego----------174
Pendleton----------210
Portland-------202,203,204
Pennsylvania
Bristol----------221
Chester----------222
Donora----------229
Philadelphia---225,226,227
Pittsburgh----------220
Williamsport----------223
Tennessee
Chattanooga--------232,233
Texas
Bellaire----------236
Dallas----------236
Houston--------237,238,239
Ft. Worth----------240,241
Utah
Salt Lake City-245,246,247
Washington
Seattle----------256
West Virginia
Charleston-264,265,266,267

ZINC (Zn), DUSTFALL

Ohio
Cincinnati----------163
West Virginia
Charleston----------263

ZINC (Zn), SUSPENDED PARTICULATE

Alaska
Anchorage----------4
California
Pasadena----------32
San Francisco----------38
San Jose----------43
San Leandro----------8
Colorado
Denver----------50
Connecticut
Waterbury----------53
District of Columbia
Washington----------59
Florida
Tampa----------63
Georgia
Atlanta----------67
Illinois
Chicago----------76
E. St. Louis----------78
Indiana
E. Chicago----------82
Kentucky
Louisville----------90
Louisiana
New Orleans----------94
Massachusetts
Boston----------107
Michigan
Detroit--------113,114,115
Marine City----------109
St. Clair----------109

ZINC (Zn), SUSPENDED PARTICULATE (Cont'd)

Minnesota
Minneapolis----------121
Missouri
Kansas City----------127
New Jersey
Camden----------130
Elizabeth----------140
Jersey City----------134
Lakehurst----------140
Paulsboro----------132
Perth Amboy----------138
Trenton----------135
New York
New York-------153,154,157
Ohio
Cincinnati----------166
Oregon
Portland----------203,205
Pennsylvania
Bristol----------222
Chester----------223
Donora----------229
Philadelphia----------227
Williamsport----------224
Tennessee
Chattanooga----------233
Texas
Bellaire----------237
Houston----------239
Ft. Worth----------242
Utah
Salt Lake City-----245,248
West Virginia
Charleston---------265,267

ZINC OXIDE (ZnO), DUSTFALL

Pennsylvania
Pittsburgh----------219

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